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Operating Costs of Trucks in Canada 1988



Operating Costs of Trucks
In Canada -- 1988

Prepared For
The Motor Carrier Branch
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by

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FOREWARD

Since 1972, Trimac Consulting Services Ltd. has prepared biennially, on behalf of the Surface Transport Administration of Transport Canada, studies to develop "Operating Costs of Trucks In Canada". These efforts apply a detailed generalized costing methodology, to describe typical motor carrier operations, on a regional basis. In these analyses, the implications of various regulatory and operational factors across the country are explored for both dry freight and bulk carriers, for a number of commonly used vehicle configurations.

To maintain continuity in the report series, changes have been kept to the minimum, except where warranted by technological, common operational practice, and regulatory evolution.

As with previous editions of this report, the purpose of the current edition is to update the previous analyses:

- 1) To reflect mid-1988 cost levels;

- ii) To reflect changes in regulations since 1986, including implementation of uniform weights and dimensions as recommended by the Roads and Transportation Association of Canada (R.T.A.C.), where implemented;
- iii) To reflect current technological factors;
- iv) To re-assess the implications on costs of particular operating features including: seasonality, payload, and trip length.

In addition, the report is specifically addressing the following trucking "issues":

- i) Fuel conservation technology. Since the beginning of the 1980's, there has been an introduction of significantly enhanced fuel

economy technology by the trucking industry. Because of the "age distribution" of the trucking fleet in service in Canada, the 1982 and 1984 editions of this report only reflected "very gradual" introduction of fuel productivity enhancements. Beginning with the 1986 report, it was agreed -- in consultation with the client -- to significantly "re-adjust" the fuel productivity to reflect what is currently with the 1986 report, it was agreed -- in consultation with the client -- to significantly "re-adjust" the fuel productivity to reflect what is currently available and now in common use by the trucking industry in Canada.

- ii) Lease Operator Operation. A section has been included which "discusses", using examples, the economics of using "lease operator" power equipment in comparison to the "base case" examples presented in the report.

- iii) Use of T.O.F.C. (Trailer on Flat Car) technology is also discussed and compared, using examples. The purpose of these is to illustrate how to use the results of this study in planning and costing such "intermodal" activity.

With the current report edition, specific regions for each of New Brunswick, Nova Scotia, and Prince Edward Island are presented. Previous report editions grouped these provinces within a region entitled "Maritimes".

It is hoped that the current edition of "Operating Costs of Trucks in Canada" will continue to be a useful guide for government, industry, and the research community in Canada.

1.0 INTRODUCTION: TERMS OF REFERENCE

The purpose of this study is to determine 1988 motor carrier operating costs for each of the provincial and territorial regions in Canada. The nature of truck service causes operating costs to vary significantly in relation to particular characteristics associated with each activity. Vehicle configuration, commodity characteristics, hauling distance, degree of utilization, regional area of operation, right-of-way conditions, and driver expertise and attitude affect costs. This study attempts to relate operating costs to these factors, to produce representative information for a wide spectrum of motor carrier activities.

Due to the comparative nature of this study, a base case cost analysis was undertaken in terms of the same variables, and displayed in the format of earlier editions.

In order to facilitate inter-regional comparisons, common operating characteristics were investigated for the various configurations within each jurisdiction. The parameters considered were:

- i) Vehicle configuration: two axle straight truck (gasoline and diesel powered), five axle semi-trailer, and a seven (or eight) axle tractor-train.
- ii) Commodity type: Dry Freight or Bulk

- iii) Annual Equipment Kilometers Travelled
- iv) Provincial or Territorial Region of Operation.
- v) Road surface (Paved/Gravel).

Although some operating conditions were assumed to be similar, other factors were varied to reflect the variations in circumstances between the different regions and trucking functions. Wage scales, payload types, equipment configurations, traffic conditions, topography, and climate influence operating costs. The extent to which these factors influence costs was considered in order to develop representative data for the different regions and haul types.

This necessitated the use of "generalized assumptions". Therefore, caution must be exercised when applying the analytical results presented herein to specific hauling situations.

Since 1976 and including the current edition, this report series has provided, in addition to the "base case analysis", an analysis of the following factors on truck

operation costs:

- i) Seasonality: Winter/Summer Conditions
- ii) Interrelationship of costs to payload
- iii) Interrelationship of costs to trip length.

In addition to these factors, since 1986 the report includes a discussion of "lease operator" and "T.O.F.C. (Trailer on Flat Car)" options.

1.1 METRICATION

Metriation of the Canadian motor transport industry has been almost totally implemented, wherever feasible within customer or other constraints.

Provincial regulatory bodies and agencies require vehicle mass, dimensions and payload capacity information be expressed in SI units. Fuel and lubricants are sold and measured in SI quantities.

Tariffs published by various bureaux and carriers are not totally metric, nor are they entirely imperial. The key factor in determining units of measure seems to be the

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preference of the individual customer served by the carrier. Thus, shipments are tendered and invoiced entirely in either SI or imperial units, depending upon the customer's needs and preferences.

In view of the significant shipping interaction with the United States, where metrication has been postponed, carriers are required to be able to work with both non-metric and SI units.

For this reason, as well as a desire to facilitate comparison with earlier reports in this series, an "imperial equivalent summary" is included in each base case report.

2.0 METHODOLOGY

2.1 GENERAL APPROACH

The approach used for developing motor carrier operational costs involved application of a mathematical computer model to develop component and total cost estimates based upon realistic average productivity information and prevailing factor unit cost levels. This computer model permits the exploration of various operational conditions and data assumptions as well as improvement of computational accuracy through elimination of cumbersome and time consuming hand calculations. The computer model is an analogue to the Triac Motor Carrier Fleet Systems Analysis which has been widely applied for truck operational costing and rate-making purposes.

For developing factor inputs and productivities, four basic sources of information were consulted:

- i) Quotations from suppliers of equipment, tires, fuel.
- ii) Survey of typical motor carrier operations within the respective jurisdictions.

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- iii) Reference to various union agreements covering rates of pay, working conditions, benefits, bonuses, etc.
- iv) Consultations with various provincial regulatory agencies concerning vehicular restrictions, licence fees, fuel taxation, sales taxes, etc.

2.2 ASSUMPTIONS

The analyses presented in this report describe costs in terms of single vehicle units, however these costs were developed assuming that the vehicle is part of a fleet. Cost components such as mechanic's labour and administration represent the typical proportion of same allocated to the one unit. The remainder of these costs are assumed to be allocated to the rest of the equipment in the fleet. This method allows the unit costs presented in this report to be accurately related to a complete truck fleet.

Since it is not feasible to analyse all commodities represented by "Dry Freight" and "Bulk" payload types, the report has grouped all shipments with bulk or dry freight characteristics into these two major categories. Averaged factors for density and load-unload times have been assumed

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to represent the wide range of commodity characteristics, and have been applied commonly to all cases to provide representative costs and an accurate mechanism for comparisons with previous reports in this series. For this reason, however, the cost information developed herein may require adjustment for specialized applications.

2.2.1 Terminalling Productivity Assumptions

In developing the direct effects of terminal (load - unload) productivity on costs, equipment wait time has been excluded from the analysis for the reason that the basic equipment utilization criteria, namely total kilometers travelled annually, implicitly contains this factor (see Section 2.2.2).

However, it must be recognized that the feasibility for an operator to realize a high number of kilometers annually is greatly diminished as the proportion of equipment time spent loading and unloading increases.

Terminal productivity does, however, directly influence driver wages and burden costs because whether the drivers are physically involved in commodity handling, they must be paid the representative hourly rate during the time involved.

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The alternative (not analysed) followed by some operators is to utilize "spare trailers", however this option has associated a trailer ownership cost and sometimes "shuttle truck service" costs to position or pick up trailers for the "line haul" trip portion.

Where applicable, a "wait time" hourly driver pay rate was applied for load/unload periods when the driver is not actively involved. In order to arrive at the load/unload time involved, average handling times are based on actual performances and have been uniformly applied to all cases in order that comparisons remain valid. This, of course, implies that adequate handling facilities and manpower are assumed to be in place, in all cases. These handling rates are based on the following performances which were in turn related to the payloads developed in the study.

a) Dry Freight - Assuming adequate handling resources

1) Two-Axle, Straight Trucks

For the straight truck, "pick-up and delivery" service, past performances indicate that the company driver will be involved one man-hour for every 1,600 consignment kilograms. This figure includes consideration of the normal queuing necessary in an urban environment.

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These costs are shown in the "pick-up and delivery" category on the cost sheets.

ii) Combination Units

The Dry Freight operation for the larger units is different than that of the straight truck. One origin-destination per trip is assumed, which reduces the time required to handle one payload. Realistically, the rate of loading-unloading varies with consignment type.

However, observation indicates that 4,500 kg per man-hour is representative of dry freight loading/unloading performance. Assuming an adequate availability of manpower, a handling time criteria of three hours for 27,270 kg has been applied to all applicable cases. That is, the driver will be on the job, but not driving, three hours for a 27,270 kg dry freight payload.

b) Bulk Commodities

A study of various bulk operations indicates that the following load/unload rates reflect a good

average for bulk commodities:

40,900 kg in 1 hour and 15 minutes

22,700 kg in 45 minutes

9,100 kg in 15 minutes

The above mentioned handling performances are used in the report to estimate the total time necessary during the operations to handle the commodities. During this time the driver is paid on an hourly rate basis. The same handling performances have been applied throughout.

The report is assuming that the only handling cost to the truck operator is the wages and burden he must pay to the driver on duty during loading and unloading. The handling facilities and manpower are considered not to be under the trucker's management.

2.2.2 Operating Productivity Assumptions

The basic equipment utilization criteria employed for this report is annual operating distance. This index is a convenient cost comparison in that it accurately reflects a number of inherent factors (such as seasonality, haul

distance, traffic congestion, urban/inter-urban operation) and is also readily available from operators' statistical records.

In this context, some reviewers of the report series have questioned the achievability of the high annual distance utilization (240,000 km) -- particularly for general freight service involving intercity trips of 320 km round trip distance. Although situations involving this level of utilization are rare under such circumstances, this high utilization cost category has been retained in the study for the following reasons:

- i) Trimac's operations simulation model indicates that this utilization can be achieved in situations which involve "double shifted" vehicles for continuous operation round the clock -- excluding maintenance shut down, Sundays, and statutory holidays.
- ii) Some general freight operators report that this level of overall vehicle utilization is achieved, although it is usually not for such short round trip distances. Trip distance, however, is a variable for most operations (except perhaps fixed route/schedule situations) and most carriers allocate fixed costs on an average "per mile" or "per hour" basis to the total mileage produced by a

"mix" of individual trip distances.

The presented costing situation, therefore, is usable for a carrier whose "mix" of long and short trips gives rise to 240,000 km per year, but who is hauling a particular 320 km round trip. On the other hand, if a carrier dedicated to the 320 km round trip is unable to achieve 240,000 km/year we suggest that one of the lower annual utilization cases is more appropriate. Also, for a carrier who achieves 240,000 km per year, but with a longer trip distance, section 3.4 provides trip length adjustment factors to be applied.

For these reasons, together with a view to maintaining "comparability" with previous studies, the 240,000 km general freight case has been retained for use as a realistic upper limit on what may be achieved in a general freight operation. CAUTION MUST BE EXERCISED, HOWEVER, IN ATTEMPTING TO APPLY THESE COSTS TO SITUATIONS WHERE HOURS OF OPERATION, TERMINAL QUEUING, OR OTHER FACTORS MITIGATE AGAINST ACHIEVEMENT OF SUCH A HIGH LEVEL OF VEHICLE UTILIZATION.

For the base case analyses in this report series, individual trip distances have been assumed and applied to the equipment. The small two-axle trucks have been assigned an average round trip distance of 100 kilometers, since they

are used for predominantly urban and shorter distance distribution service. On the other hand, the larger combination units are assigned a round trip distance of 320 kilometers since they are assumed to be involved in predominantly "terminal-to-terminal" highway service. Again, these common trip distances have been applied in all cases, to ensure significant comparisons.

In order to more fully explore the interdependence of unit costs with trip length, the foregoing trip distance assumptions were later relaxed. Section 3.4 cites results from this sensitivity analysis.

The cost analyses distinguish between vehicles operating over paved highways and those which travel on predominantly non-paved, gravel roads. This is necessary due to the varying effect which surface conditions have on equipment operating expense, particularly with respect to maintenance and tire costs.

Development of unit cost data involves analysing the effect of the diverse conditions and performances on trucking operations. This effect is evaluated in terms of the various fixed and variable cost functions, in order to obtain an accurate gauge of cost-operation relationships.

This method of cost evaluation is fairly standard. Accuracy is dependent upon the extent and reliability of available

information relating to actual trucking operations. The cost data presented here is founded upon information acquired from operators of equipment identical to vehicles discussed in this report, and operating under similar conditions. This data is augmented by information obtained from the various suppliers of equipment, lubricants, and fuel and the results are correlated to develop accurate cost estimates.

The combination units will be involved in mainly highway service, except for that urban access required for load/unload facilities. In contrast, the straight trucks are assumed to be involved in predominantly short distance, urban service.

For each region, the predominant type of weather and terrain will affect equipment performance, and the costs reflect this effect. Effects of predominantly winter operation on costs are explored in Section 3.2.

Vehicle performance (fuel consumption, average speed) is related to payload weight, vehicle size and configuration, and terrain characteristics. These factors are considered when developing the equipment output. The effect on unit costs of payload variations are described in Section 3.3. Such understanding enables an assessment to be made for non-typical payload situations as well as for backhaul situations.

For the base case analysis, all hauls are evaluated as forehauls only. Backhauls have not been assumed, and the costs represent one payload per round-trip.

Before developing operating costs, it is necessary to determine the hours of operation and the tonnages moved since they affect costs, especially driver wages. Hours and weights were developed from the established annual distance, the assigned round-trip distances and the payload characteristics.

Average payload size was determined by applying the general density characteristics of the commodity type to the gross vehicle weight.

Establishment of tonnage and hourly performance provides further identity to the hauls and allows development of expected total costs.

2.2.3 Assumptions for Analytical Convenience

In addition to the operational and terminalling productivities which were assumed for the base case analysis, a number of generalizations were made in order to facilitate analytical convenience by reducing the number of permutations requiring examination.

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Care must consequently be exercised, however, in applying the base case for specialized operations which deviate from these generalizations.

These generalizations include:

- a) The major population centres of each region were assumed as the base of operation. Hence, cost factors reflect the local market in these vicinities.
- b) All highway units were assumed to be non-sleeper units.
- c) All bulk trailers were assumed to be aluminium.
- d) All dry freight trailers are assumed to be insulated, but non-refrigerated, vans.
- e) For purposes of assessing equipment performance and maintenance cost levels, the equipment in the study is considered representative of the average vehicle in an actual fleet. The tractors are designated as being three years old, and the trailers five years old. Therefore, used performance factors reflect this equipment, not new or old units.
- f) In respect of vehicle write off costs, depreciation was related to new 1988 replacement costs, rather than to

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the depreciated "book value" of used equipment. Also, for this calculation, residual life of "new" equipment was used as opposed to the shorter residual life for used equipment.

2.2.4 Vehicle Specifications

For purposes of clarity, the following vehicles were costed and the cost plus Provincial Sales Taxes, where applicable, and transportation charges are tabulated in the appendix in Table A.3.

a) Two-Axle Cab and Chassis

- gasoline engine equipped
- diesel engine equipped

International with radial tires, 5 speed transmission, re-inforced frame, heavy duty battery and suspension, power steering, side mirrors, radio, hydraulic brakes, and a 466 cu. in. diesel engine or gasoline equivalent.

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Dry Freight Adaptation

- 7.3 m chassis mounted van with two rear doors, one side door, dome and clearance lights, bumper, mud flaps, insulation and paint.

Bulk Adaptation

- 9000 litre chassis mounted propane tank with all meters, hoses, pumps, bumper and mud flaps.

b) Conventional Cab Tandem Tractor for Five-axle Combinations

Kenworth W900, NTC 350 Cummins diesel engine, RT14715 Transmission, radial tires, 5450 kg front axle, and 15900 kg rear axles.

Dry Freight Adaptation

- 13.7 m general freight trailer, insulated, tandem axle and radial tires.

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Bulk Adaptation

- Dry bulk trailer, aluminium 26.9 cu. m. capacity, 9.7 m long, radial tires on tandem axles.

c) Conventional Cab Tandem Tractor for 7/8 Axle Trains

Western Star with HTC 444 Cummins diesel engine, 15 speed transmission, 6350 kg front axle, 21000 kg rear axles, radial tires.

Dry Freight Adaptation

- Two 8.2 m general freight trailers, insulated van boxes with radial tires on single axles.

Bulk Adaptation

- Dry bulk pup trailer, aluminium, 13 cu. m. capacity, 3.2 m long, radial tires on single axles to be run with the 5 axle configuration bulk trailer.

* * * * *

2.3 TECHNOLOGICAL ADVANCES

In the time period from 1974 through 1982, when fuel prices were escalating at an unprecedented rate, considerable research was expended to improve fuel efficiency in the trucking industry. This has been a co-operative effort of fleet operators, equipment manufacturers and government agencies and has resulted in standard adoption of devices for speed control, air deflection, driver-monitoring/education, and other more efficient components in vehicles. Beneficial results of this research have seen extensive implementation in the time period 1980 - 1986.

In this report series, the unit fuel consumption levels have been gradually adjusted, however, reflecting the "time lag" associated with the age distribution of Canada's truck vehicle fleet.

In the 1986 report edition, a full implementation of this technology was assumed, recognizing that there are few "pre 1980" vehicles in extensive operation in Canada's motor carrier fleets. Furthermore, those older vehicles which are in operation are likely now assigned to low annual mileage utilization applications. The 1988 edition of this study continues to show a significant fuel savings when compared

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to previous reports in the series.

Because each individual operation is unique due to differences in terrain, climate, traffic, and other operating conditions, it is impossible to state that the adoption of some or all of the following devices and suggestions will result in savings to a particular fleet operation. Nonetheless, the following "menu" of available energy saving technologies has been provided for consideration by fleet operators. These, and other technological options should be reviewed in consultation with vehicle suppliers:

2.3.1 Diesel Engines

It is widely recognized that diesel engines last longer, are more fuel efficient and are not as costly to maintain as gasoline engines. These advantages outweigh the disadvantages of higher initial cost and, in some areas, the need for cold weather starting assistance.

Diesel engines have long been the norm for long distance heavy trucking operations. The 1980's have seen the diesel engine being used more and more in medium and light weight trucking operations.

2.3.2 Aerodynamic Drag Reduction

The installation of devices to reduce the effects of aerodynamic drag on trucks and trailers is now very popular. In addition, several manufacturers have recently introduced power unit designs which explicitly recognize aerodynamic shape considerations.

Aerodynamic drag reduction is most effective for long haul high average speed applications. There is less benefit realized for vehicles operating solely in an urban area with low average speeds and a considerable amount of stop-and-go driving.

In appropriate situations, drag reduction has been estimated to provide fuel economy improvements up to 10 percent compared to non-treated vehicles.

2.3.3 Radial Tires

There are many advantages to radial tires. Longer tire life is a result of the radial tire's resistance to tread squirming and deformation. Also, the radial tire produces significantly less rolling resistance. Longer tire life generates less cost per kilometer for tires and the reduced rolling resistance can mean increased fuel economy.

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Proper tire maintenance programs will result in lower per kilometer costs and will also produce more retreadable casings.

2.3.4 Temperature Controlled Fans

It has been found that the fan is not needed more than five percent of the time under most operating conditions. Temperature controlled fans, by being off most of the time, reduce the power requirements of the engine and prolong engine life through better engine temperature control and reduced warm up time. This reduces engine power requirements and improves fuel economy.

2.3.5 Turbo Charged Engines and High Torque Designs

Several design improvements in truck engines have been introduced which provide increased power for less fuel consumption, as well as improved vehicle life and maintenance savings.

All or any of the above mentioned technological enhancements can result in reduced truck operation costs if they are properly specified to the application, installed, maintained, and used.

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However, poor driving and maintenance procedures will negate any advantages which may be gained by installing this equipment. For this reason, many fleet operators have implemented fuel management programs to quantify and pinpoint areas where fuel consumption improvements need to be realized in their operations. Because of the significant benefits that can be derived, drivers, maintenance personnel, and management are very fuel and cost conscious in most prudently run operations.

As noted previously, this edition of "Operating Costs of Trucks in Canada" continues to reflect significant implementation of fuel saving technology and management practices to promote conservation.

2.4 COSTS

Once the characteristics of each operating case are defined, the costs are developed as related factors. This section describes briefly the separate cost factors which were used to develop operating costs. Appendix Tables A.1 through A.4 summarize current labor costs, fuel costs, equipment purchase costs, allowable gross vehicle weight, and license fees in each region. These factors are the dominant influences on total operating costs and are of course responsible for the major portion of regional costs variation.

2.4.1 Driver Costs

These costs were obtained by applying the driver wage rates prevalent in the region to the operating cases (refer to Table A.1, Appendix A). Hourly and distance rates were obtained from reference to collective bargaining agreements and discussions with fleet managers. The wage rates used reflect Trimac's best estimate of the average driver wage scale applicable to the area.

Driver costs are influenced by distance, hours and tonnage associated with a haul. The cost of drivers for the two-axle, low annual distance units was calculated on an hourly rate basis. The larger highway vehicles are costed on the basis of calculating driver wages on either a per-kilometer rate, or an hourly rate -- whichever is highest. This is standard procedure and results in most cases in pavement kilometers being rated on a distance basis and gravel kilometers paid on an hourly basis, due to the slower vehicle speed over non-surfaced roads.

Besides the wages accruing from the driving activity, the cost of driver salary resulting from loading and unloading of payloads must be included.

The wage burden has been calculated as a percent of actual wages. These burden percents were developed from

observations of the records of actual truck operations.

2.4.2 Fuel Costs

Fuel costs are a result of the influence of distance travelled, vehicle fuel consumption, and of course fuel prices. A study was made of the four different classifications of units in the various areas to obtain a realistic fuel consumption rate for each. For the urban conditions, the major city in each area was assumed for the study, causing a consideration of the stopping and starting required, affecting the average rate of fuel consumption.

A survey was undertaken of mid 1988 wholesale fuel prices in the most heavily populated areas of each province. These costs include provincial tax. Note that the prices used are not "pump prices". The prices assume a trucker purchasing in bulk from the oil company and receiving a normal discount on the F.O.B. commercial tank wagon (plus tax) price.

2.4.3 Repair Costs

The repair costs shown represent the expected costs of parts, lubricants, oil, and labour associated with the maintenance and repair of the particular equipment type. As mentioned previously, the labor component includes only the portion of labor time spent working on the one particular

unit. Besides the normal maintenance and repair work that is expected to be required, the analysis has assumed that a preventive maintenance programme is being followed in every case. The cost of preventive maintenance on the piece of equipment is included in the total repair costs.

2.4.4 Cleaning Costs

The cost of cleaning tractors and van freight trailers has minimal effect on total operating costs.

Annual costs of cleaning bulk tanks vary with the type of commodity carried and the quantity of different bulk commodities transported during the year. An average of tank trailer cleaning costs was developed from a survey of various carriers of both liquids and powders.

2.4.5 Transport Costs

The transport cost category is a miscellaneous category to reflect all those factors that may be attributed to extra equipment that are not normally viewed as part of a vehicle's standard configuration. This may represent special pumps, hoses, safety equipment, dunnage, small

tools, chains, tarping*, heaters* or refrigeration* equipment. These costs will vary with area of operation and also with the specific type of product hauled.

In the case of bulk equipment, transport costs shown are based on the average costs obtained from a survey of bulk operations in each region. Thus, to a certain degree, the costs reflect the characteristics of the bulk commodities predominantly hauled in each particular region. For example, certain liquid products require more expensive pumps and hoses than do others and pump maintenance costs are generally higher for heavier liquids.

2.4.6 Tire Costs

To obtain a realistic tire cost for the various types of units in the different areas of operation, the following items were considered:

- a) Cost of new tires in each area for the particular vehicle.

* Not included for this analysis, but such items may be pertinent for certain specialized applications.

* * * * *

- b) Life of tire in each area, considering road surface conditions.
- c) Cost of retreading, when retreading is desirable, and life of a retread tire for each area.
- d) The actual tire cost for large trucking companies in each area.

Investigation of the above information has provided a realistic cost basis for tires, which compares favourably to the tire costs of actual operations.

2.4.7 Depreciation Costs (Refer to Table A.3 -- Appendix A)

"Normal" depreciation is used based on the 1988 capital cost of the equipment obtained from dealer quotations. That is, one percent a month for trailers over a trailer life of eight years and 79.2 percent for tractors over a tractor life of five years. This assumption relates equipment write-off to current replacement cost rather than an arbitrary "book value" determination.

2.4.8 Licences Costs

These costs reflect the provincial or territorial charge for licencing the alternate configurations of tractors and trailers. Charges are assumed based on an "intra" regional operation and consequently do not reflect any reciprocal fee arrangements that affect operations of "inter" regional operators when operating within each jurisdiction.

Since 1984, government and industry have attempted to achieve uniformity in provincial weights and dimensions. The maximum allowable gross vehicle weights recommended by R.T.A.C. (Road and Transportation Association of Canada) are as follows:

Tractor Semitrailer	46,500 kg
A Train Double	53,500 kg
B Train Double	62,500 kg
C Train Double	53,500 kg

These weight limits will be adopted by all provinces and territories across Canada and phased in within the next two years. For the current edition of the report, present provincial standards were assumed, which may differ from

this standard.

2.4.9 Administration, Interest, and Insurance Costs

Administration and interest costs have been set at fourteen percent of revenue and insurance costs have been set at three percent of revenue -- which seems to be the average of most operations.

2.4.10 Profit

A parameter of ten percent of total revenue has been designated for profit (pre-tax). Over a longer term time horizon, this has been a satisfactory norm for most successful truck operations, although it is noted that recently, in very depressed markets such as Western Canada, slimmer margins are presently the norm. To maintain comparability with other reports in the series, the ten percent profit factor was maintained.

2.5 GRAVEL ROAD OPERATIONS

Conditions associated with operating over predominantly gravel surfaces cause vehicle operating costs to be higher than for paved roads. The extent of cost is dependent, not only upon surface conditions, but also the amount of 'gravel' kilometers travelled and the driving habits used on

the route.

This report assumes the identical trip distance for gravel road as is used for paved surfaces. This provides a common criteria (in addition to equipment configuration) upon which to base costs comparisons. The effect of gravel surface on operating cost was determined from a survey of records of truckers who operate over predominantly gravel roads. The information was correlated with cost data pertaining to comparative equipment operating over paved surfaces. Cost differences not attributable to gravel surface conditions (but rather due to particular characteristics of the operation) were identified before determining cost impacts of operating over gravel.

The observations demonstrated that the most significant variable cost differentials occur in the factors of maintenance, tires, and, to a lesser extent, driver salary. Statistics indicate that over an operating year there is not an appreciable difference in fuel consumption of vehicles operating over gravel and paved roads - assuming the equipment is identical. Of course, depreciation and licence costs are not dependent upon right-of-way surface conditions, although it can be argued that extensive use of vehicles over unpaved surfaces will escalate equipment depreciation. The increase, if any, is not significant to total operating costs.

Overhead cost of administration is greater for gravel road operations (again assuming identical sized operations) as is insurance costs to a lesser degree. The increase in administration cost is due mainly to the increased activity caused by the extra maintenance activity and the additional time necessary to complete a trip. Cost of administration is, of course, dependent upon the structure, methods, and efficiency of a company. However, the costs presented in the report are representative of average costs resulting from gravel operations.

Regarding the variable costs which are significantly altered due to gravel operations, the survey indicates the average increase is as follows:

- Driver Costs - 8% - 12% increase over paved road operations, for long distance hauling only.
- Repair Costs - 20% increase over paved road operations - for both tractors and trailers.
- Tire Costs - 70% increase over paved road operations - for power units pulling trailers
- 65% increase over paved road operations - for trailers

* * * * *

- 43% increase over paved road operations -
for two-axle straight trucks.

The increase in driver costs is due mainly to the additional travel time which will result from a full year operation over gravel roads. The report has applied an hourly wage to driver costs associated with gravel roads, since the survey indicated that most drivers will demand an hourly rate when travelling on gravel. Note, also, that surface conditions have no significant effect on driver wages for short distance hauls.

Naturally, gravel conditions will cause higher maintenance costs due to the effect of rougher, dirtier, right-of-way surfaces. The need for maintenance is more common than for paved surfaces, as service, parts replacement, and oil and lubrication are needed more frequently. Again, the costs reflect the assumption that a preventive maintenance schedule is maintained and repair work is undertaken when required.

The extra wear on tires caused by gravel surfaces significantly affects tire life and costs. The need for rotation, recapping, and replacement is much more frequent than for equivalent vehicles operating over paved surfaces. The increase in tire cost varies by size of equipment and by power unit and trailing equipment. This variance is due to the differences in axle loadings, the tractive force applied

to the tire, and of course, the size and quality of the
required tire.



3.0 SUMMARY OF RESULTS

3.1 BASE CASE: Update 1986 Findings

Section 5 presents in detail the particular costs developed through application of the methodology to the various jurisdictions and vehicle configurations specified. Comparison with pre-metric editions is facilitated through providing an "Imperial Equivalent Summary" on each sheet.

For convenience, following Tables 3.1 through 3.4 summarize comparatively the unit vehicle operating costs developed for each configuration and jurisdiction under the base case operating assumptions. The most significant of these assumptions include:

- Year round operation (see Section 3.2 for Winter Analysis)
- Payloads as cited on the analysis sheets in Section 5 with empty-return assumed (i.e. 0.5 of round trip miles, empty). (See Section 3.3 for variations)

Table 3.1

SUMMARIZED BASE CASE OPERATING COSTS

TWO-AXLE STRAIGHT TRUCKS -- GASOLINE POWERED

MID 1988

(cents per kilometer)

Configuration/Annual Distance/Road Surface

	Two Axle General Freight				Two Axle Bulk			
	40,000km Paved	80,000km Gravel	120,000km Paved	40,000km Gravel	80,000km Paved	120,000km Gravel	120,000km Paved	120,000km Gravel
British Columbia	272	279	259	266	254	261	181	188
Alberta	254	261	242	248	237	244	163	170
Saskatchewan	225	230	211	216	206	212	151	156
Manitoba	238	243	225	230	220	225	152	158
Ontario	251	257	236	243	232	238	191	199
Quebec	239	245	225	231	220	226	188	194
New Brunswick	192	198	178	184	173	179	162	168
Nova Scotia	191	196	177	184	173	179	161	168
P.E.I.	170	176	156	162	151	158	149	156
Newfoundland	184	190	169	176	165	171	170	177
Yukon	273	280	260	267	256	263	170	178
N.W.T.	245	252	232	239	228	235	160	166

To convert to cents per mile multiply by 1.6093

Table 3.2

SUMMARIZED BASE CASE OPERATING COSTS

TWO-AXLE STRAIGHT TRUCKS -- DIESEL POWERED

MID 1988

(cents per kilometer)

Configuration/Annual Distance/Road Surface

	Two Axle General Freight				Two Axle Bulk			
	40,000ks Paved	40,000ks Gravel	80,000ks Paved	80,000ks Gravel	120,000ks Paved	120,000ks Gravel	40,000ks Paved	40,000ks Gravel
British Columbia	265	272	250	257	245	252	172	179
Alberta	247	253	233	239	229	234	154	161
Saskatchewan	219	224	204	209	199	204	144	149
Manitoba	233	237	210	222	212	217	145	150
Ontario	243	249	227	233	222	228	161	167
Quebec	230	235	214	219	208	214	176	182
New Brunswick	183	190	168	174	163	169	152	158
Nova Scotia	183	189	168	174	163	169	152	158
P.E.I.	163	169	148	154	142	149	141	147
Newfoundland	176	182	160	166	155	161	160	167
Yukon	265	272	251	258	246	253	161	168
N.W.T.	237	244	223	230	219	225	150	157

To convert to cents per mile multiply by 1.6093

Table 3.3

SUMMARIZED BASE CASE OPERATING COSTS

FIVE-AXLE SEMI TRAILER CONFIGURATIONS

NID 1988 (cents per kilometer)

Configuration/Annual Distance/Road Surface

	-----Five Axle General Freight-----				-----Five Axle Bulk-----			
	80,000km Paved	160,000km Gravel	240,000km Paved	80,000km Gravel	160,000km Paved	240,000km Paved	80,000km Gravel	160,000km Paved
British Columbia	175	202	144	171	163	185	137	150
Alberta	158	184	128	154	143	164	119	140
Saskatchewan	152	176	121	145	136	155	111	129
Manitoba	157	179	126	148	141	158	116	133
Ontario	162	193	131	162	157	185	132	160
Quebec	161	190	129	158	163	187	137	161
New Brunswick	138	161	108	131	135	157	110	132
Nova Scotia	138	161	108	131	135	157	110	132
P.E.I.	131	151	101	121	130	149	105	125
Newfoundland	141	163	111	132	142	166	117	141
Yukon	190	220	158	188	172	188	146	162
N.W.T.	169	197	140	167	150	173	126	149

To convert to cents per mile multiply by 1.6093

Table 3.4

SUMMARIZED BASE CASE OPERATING COSTS

SEVEN/EIGHT-AXLE TRAINS

MID 1988 (cents per kilometer)

Configuration/Annual Distance/Road Surface

	-----Seven/Eight Axle General Freight-----				-----Seven/Eight Axle Bulk-----			
	80,000km Paved	160,000km Gravel	240,000km Paved	80,000km Gravel	160,000km Paved	240,000km Gravel	80,000km Paved	240,000km Gravel
British Columbia	211	246	220	276	211	216	196	183
Alberta	182	211	188	150	180	186	167	156
Saskatchewan	177	207	182	143	173	184	164	152
Manitoba	181	212	186	147	178	181	163	149
Ontario	188	217	192	147	184	210	182	179
Quebec	188	213	188	145	179	211	186	179
New Brunswick	162	192	167	128	158	187	162	155
Nova Scotia	161	191	167	129	158	186	162	155
P.E.I.	154	188	155	121	147	179	158	147
Newfoundland	161	187	162	127	153	195	168	162
Yukon	230	268	243	196	234	226	208	194
N.W.T.	210	250	226	179	218	213	186	183

To convert to cents per mile multiply by 1.6093

* * * * *

- Assumed 100 kilometre round trip for two-axle units and 320 kilometre round trip for all other combinations. (See Section 3.4 for effect of distance variations).
- Annual vehicle utilization levels as cited on the analysis sheets. (See Section 3.5 for discussion and effect of variations).

3.2 SEASONAL VARIATIONS (Winter Case)

A review of typical motor carrier operating statistics indicated that the major features that vary for a winter operation in comparison to the balance of the year were:

- a) A 20 percent climb in fuel consumed per kilometre output reflecting a combination of reduced traction, increased accessory demands, and increased idle/warm up times.
- b) A 30 percent increase in per kilometre tire costs on the power unit reflecting reduced traction and costs for winter tires.
- c) A 20 percent increase in per kilometre repair costs on the power unit.

The permutations cited in Section 5 were all re-evaluated by computer under the foregoing assumptions to develop typical winter operating factors.

Table 3.5 summarizes the resultant unit cost adjustment factors by which the base case values should be adjusted to reflect "winter-only" operations according to the formula:

$$\text{Winter Cost} = \text{Base Case Cost} \times C_w.$$

e.g. - For a five-axle bulk unit in Alberta (160,000 kilometres/year on paved), the base case 1988 operating cost (Table 3.3) is 119 cents/kilometre.

The "winter-only" cost would be 119 cents / kilometre $\times$ 1.079, or 128 cents/kilometre (206.6 cents/mile).

TABLE 3.5: WINTER TRUCKING UNIT COST ADJUSTMENT FACTORS
(National Average for All-Weather Roads)

TWO-AXLE UNITS - Gasoline Powered

Cw.

Dry Freight	1.052
Bulk	1.080

TWO-AXLE UNITS - Diesel Powered

Dry Freight	1.044
Bulk	1.068

FIVE-AXLE SEMI-TRAILERS

Dry Freight	1.071
Bulk	1.079

SEVEN/EIGHT-AXLE TRAILS

Dry Freight	1.067
Bulk	1.075

3.3 PAYLOAD VARIATIONS or EMPTY KILOMETRES VARIATION

Payload assumptions for each configuration/jurisdiction are cited on each analysis sheet in Section 5. Further, it was assumed that 50 percent of kilometres travelled were empty-return in the base case analysis.

In order to explore payload variations from the base case, an evaluation of the effect of empty travel was undertaken. A review by fleet operators resulted in the following assumed cost varying assumptions.

3.3.1 Paved Roads

For empty trucks, unit costs per mile were expected to decrease reflecting:

- Increase in average speed (except short haul straight truck configuration) of roughly 8 kph.
- Fuel savings (say 17.6 L/100 km-gasoline, 10.5 L/100 km-diesel).
- Tire wear savings (10 percent power unit, 2-3 percent trailers).

3.3.2 Gravel Roads

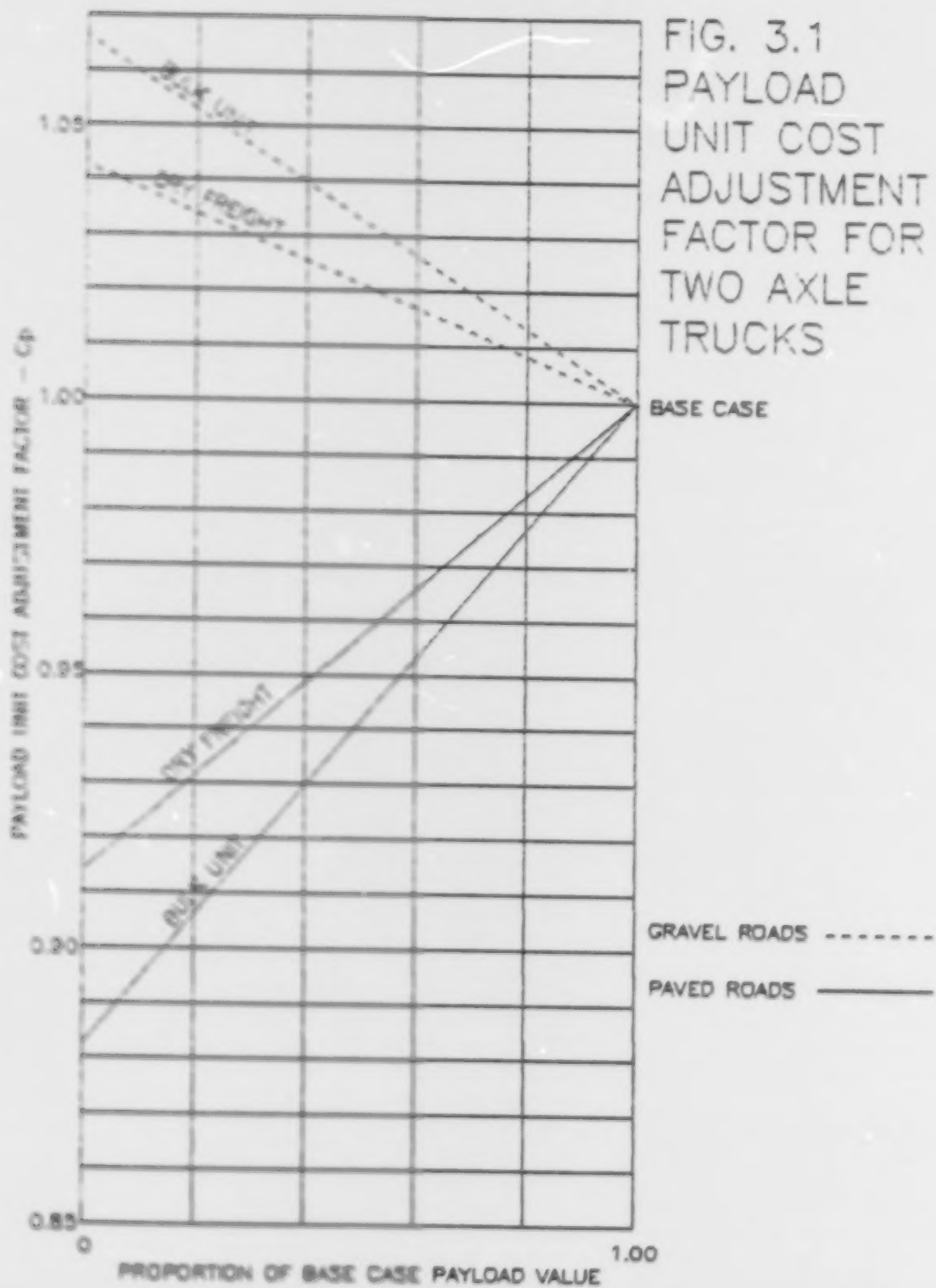
For empty trucks, unit costs per kilometre were expected to increase reflecting:

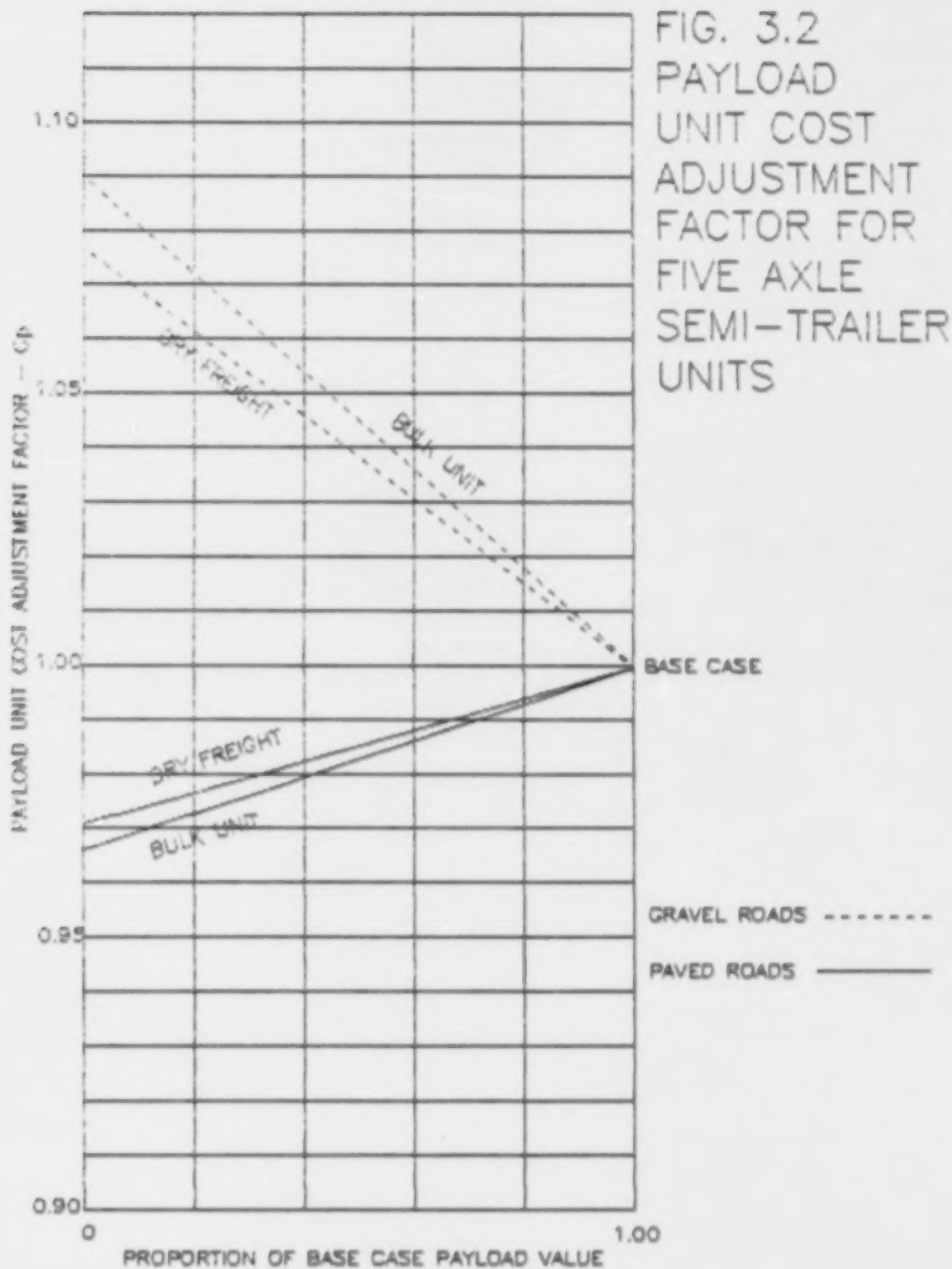
- No significant speed increase (rougher ride!)
- Increased repair costs because of vibration (40 percent on power units, 50 percent on trailers)

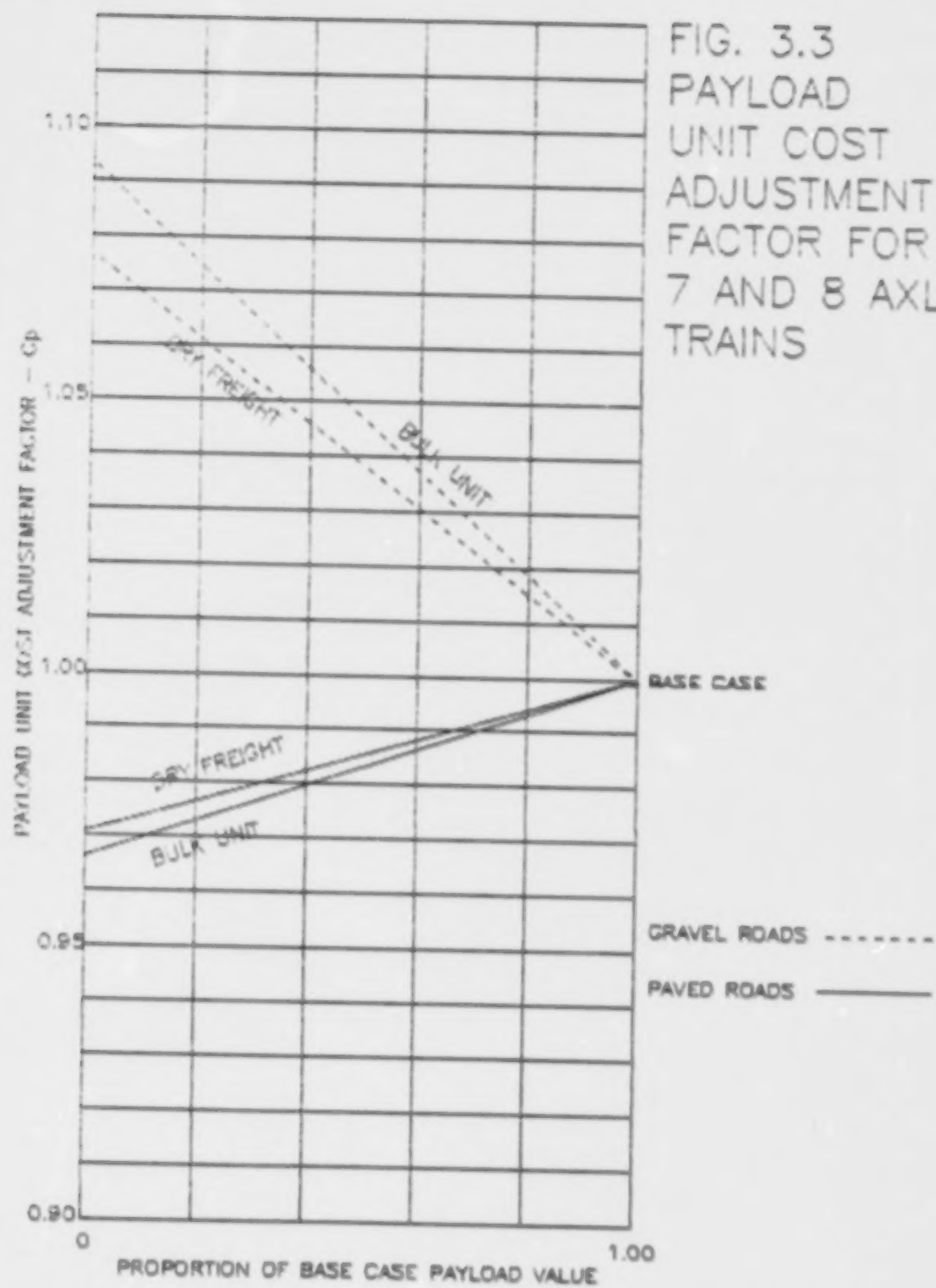
Figures 3.1 through 3.3 summarize the expected cost impacts of payload reduction from the base case evaluations based on a linear interpolation procedure. The figures are based on an assumed 50 percent empty miles value. Figures 3.4 through 3.6 illustrate the linear interpolations developed for use where the proportion of empty miles is reduced or increased from 50 percent. It should be noted that for this evaluation, that no provision for additional backhaul set-up and load time was provided in the analysis. This factor could be provided for using the applicable hourly rates from Section 5.

Examples

Consider a five-axle dry freight operator using paved roads in Ontario. The base case (Section 5) yields (for a 320 kilometre round trip, empty-







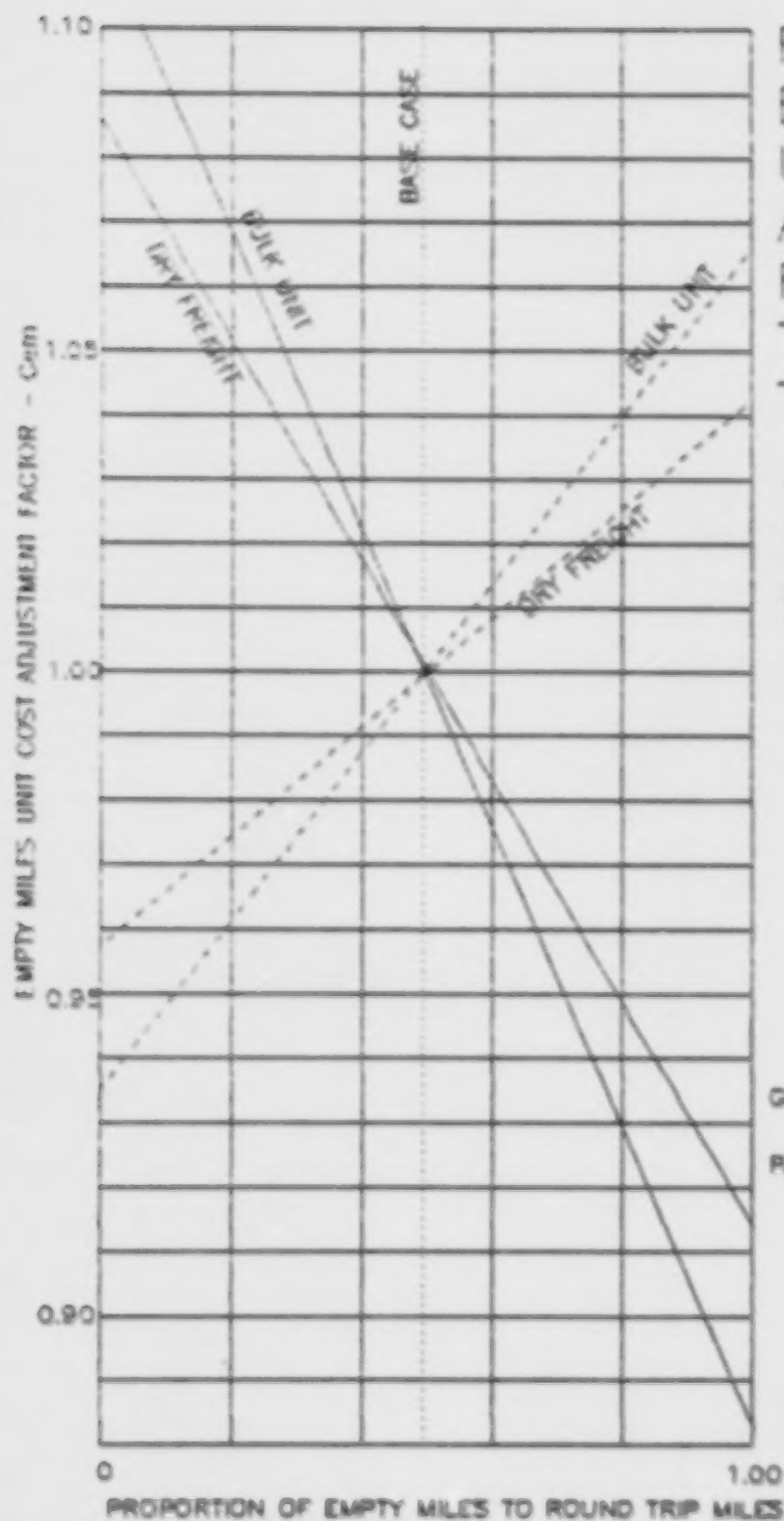


FIG. 3.4
EMPTY MILES
UNIT COST
ADJUSTMENT
FACTOR FOR
TWO AXLE
TRUCKS

VALUES ARE "OVER THE
ROAD COST" AND
EXCLUDE PROVISION FOR
ADDITIONAL BACK-HAUL
SET-UP AND
LOAD TIME.

GRAVEL ROADS - - - - -
PAVED ROADS - - - - -

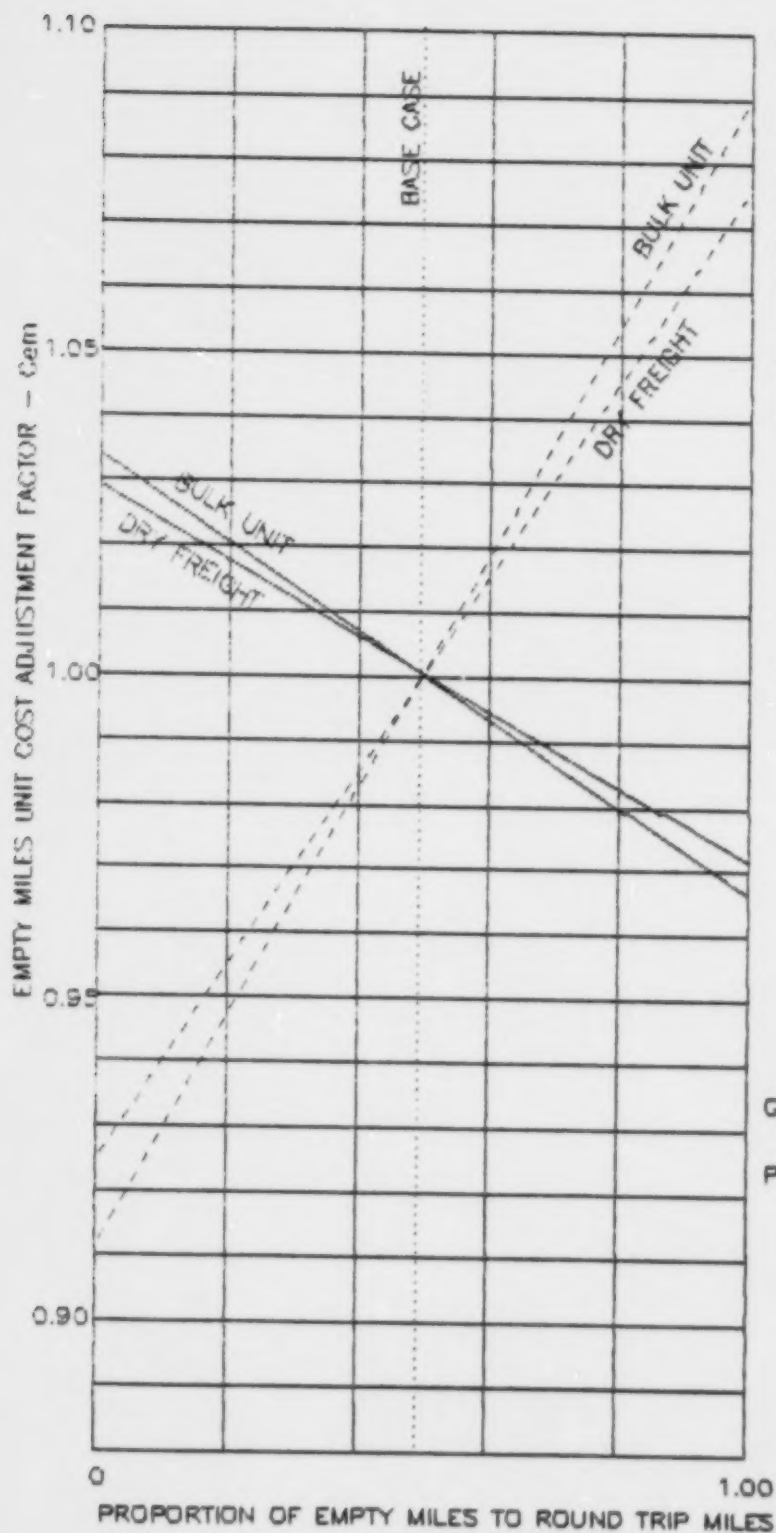


FIG. 3.5
EMPTY MILES
UNIT COST
ADJUSTMENT
FOR 5 AXLE
SEMI-TRAILER
UNITS

VALUES ARE "OVER THE
ROAD COST" AND
EXCLUDE PROVISION FOR
ADDITIONAL BACK-HAUL
SET-UP AND
LOAD TIME.

GRAVEL ROADS - - - - -

PAVED ROADS - - - - -

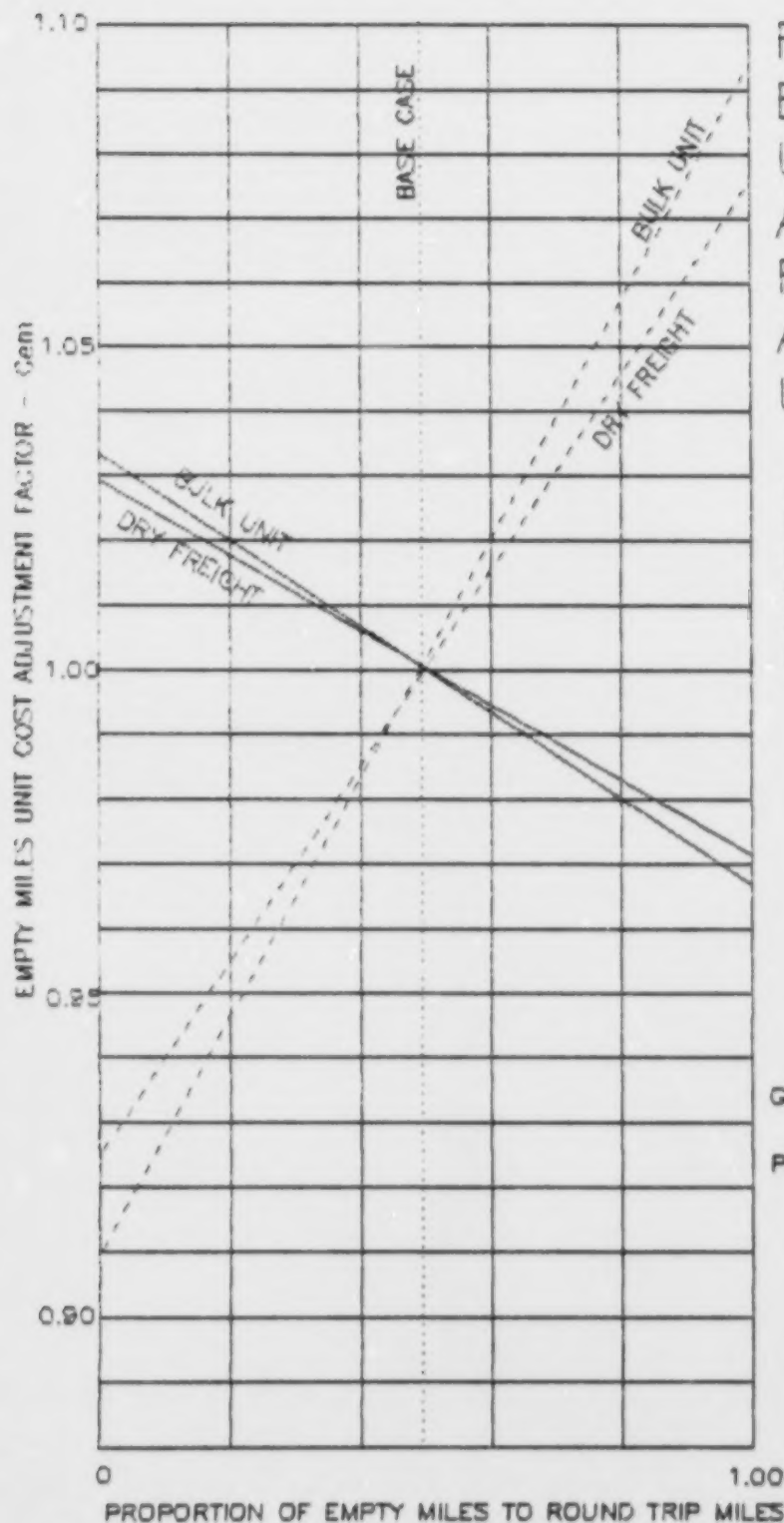


FIG. 3.6
EMPTY MILES
UNIT COST
ADJUSTMENT
FOR 7 AND 8
AXLE TRAIN
UNITS

VALUES ARE "OVER THE
ROAD COST" AND
EXCLUDE PROVISION FOR
ADDITIONAL BACK-HAUL
SET-UP AND
LOAD TIME.

GRAVEL ROADS - - - - -
PAVED ROADS - - - - -

return, 22,570 kg payload, annual vehicle utilization 160,000 km) an expected unit cost of 138.8 cents/kilometre.

If forehaul payload were reduced to 15,000 kg (.66 of base case), Figure 3.2 predicts a reduced unit per mile cost of 138.8 cents/kilometre $\times C_p = 138.8$ cents/kilometre $\times .990 = 137.4$ cents/kilometre.

If forehaul payload were reduced to 15,000 kg and if a backhaul taking one hour to load of the same 15,000 kg payload were achieved, unit costs would be:

$$138.8 \text{ cents/kilometre} \times C_p \times C_m + (\$78.11/\text{hr})(1 \text{ hr})/320 \text{ km}$$

$$= 138.8 \times .990 \times 1.030 + (78.11 \times 100)/320 \text{ cents/km}$$

$$= 141.5 \text{ cents/kilometre} + 24.4 \text{ cents/kilometre}$$

$$= \underline{165.9 \text{ cents/kilometre}}$$

3.4 TRIP LENGTH VARIATION

Another feature which can result in considerable variation of unit distance costs over certain ranges is trip length.

As cited previously, the base case assumed a round trip distance of 180 kilometres for straight trucks and 320 kilometres for combinations. As discussed in section 2.2.1, the vehicle annual distance utilization criteria will partially allow for trip length (since as trip length shortens, the proportion of time a vehicle is being terminalled rises), however, additional provision for driver load/unload/wait-time must also be included in the analysis.

Figures 3.7 through 3.9 develop a distance unit cost adjustment factor to account for this feature. Like payload, this factor has also not changed significantly since the previous edition of this report.

Example

From the base case, a seven-axle bulk train operating 160,000 kilometres per year on paved roads in B.C., average round trips of 320 kilometres, will cost roughly \$1.63 per kilometre to run.

From Figure 3.9, if the average round trip were reduced to 160 kilometres, unit costs would be approximately $\$1.63 \times 1.03 = \$1.68$ / kilometre, provided that this operator is still able to achieve 160,000 annual kilometres/truck unit on such an

FIG. 3.7
 DISTANCE UNIT
 COST ADJUSTMENT
 FACTOR FOR
 2 AXLE TRUCKS

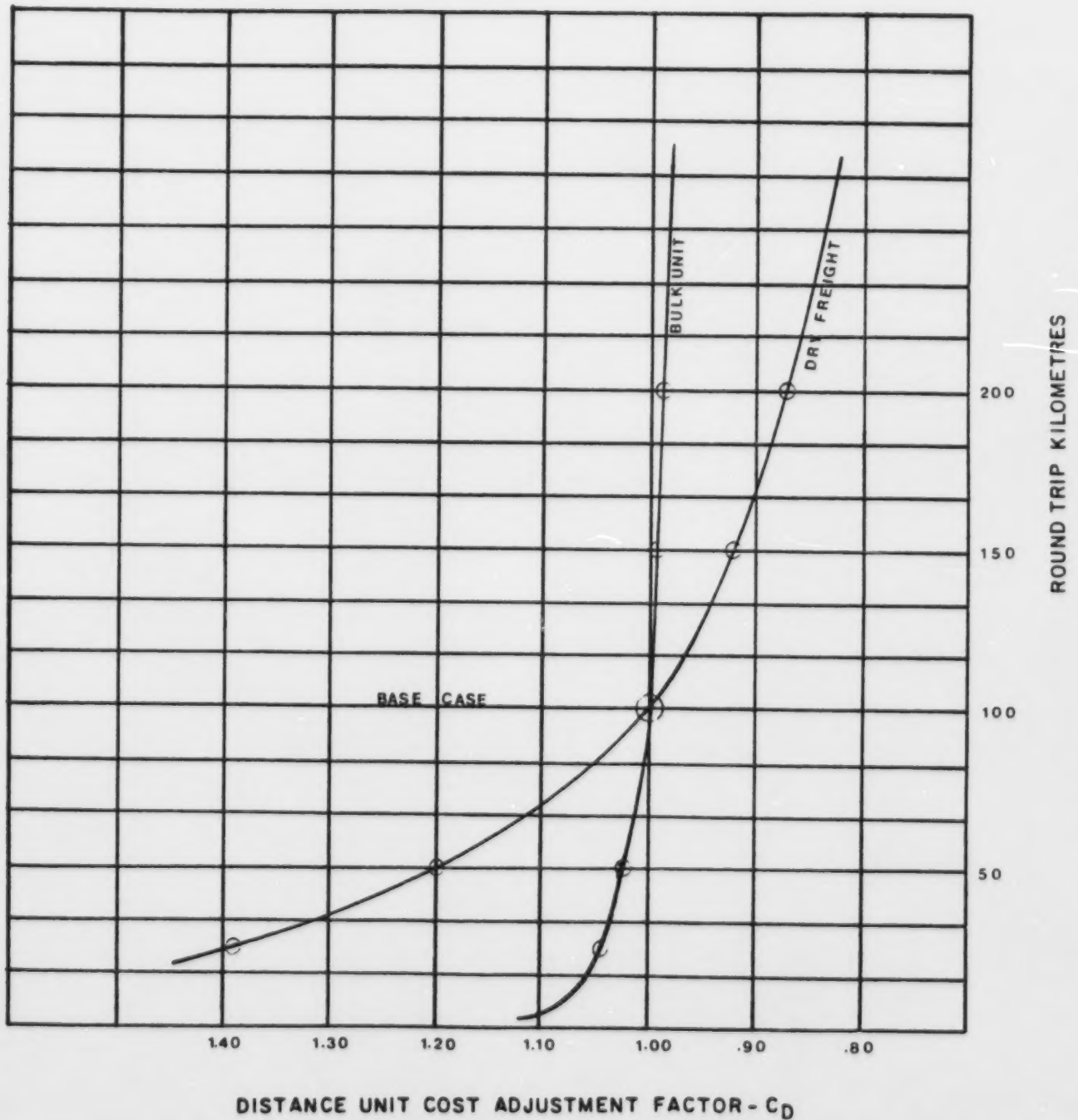


FIG. 3-8
 DISTANCE UNIT
 COST ADJUSTMENT
 FACTOR FOR
 5 AXLE SEMI
 TRAILER UNITS

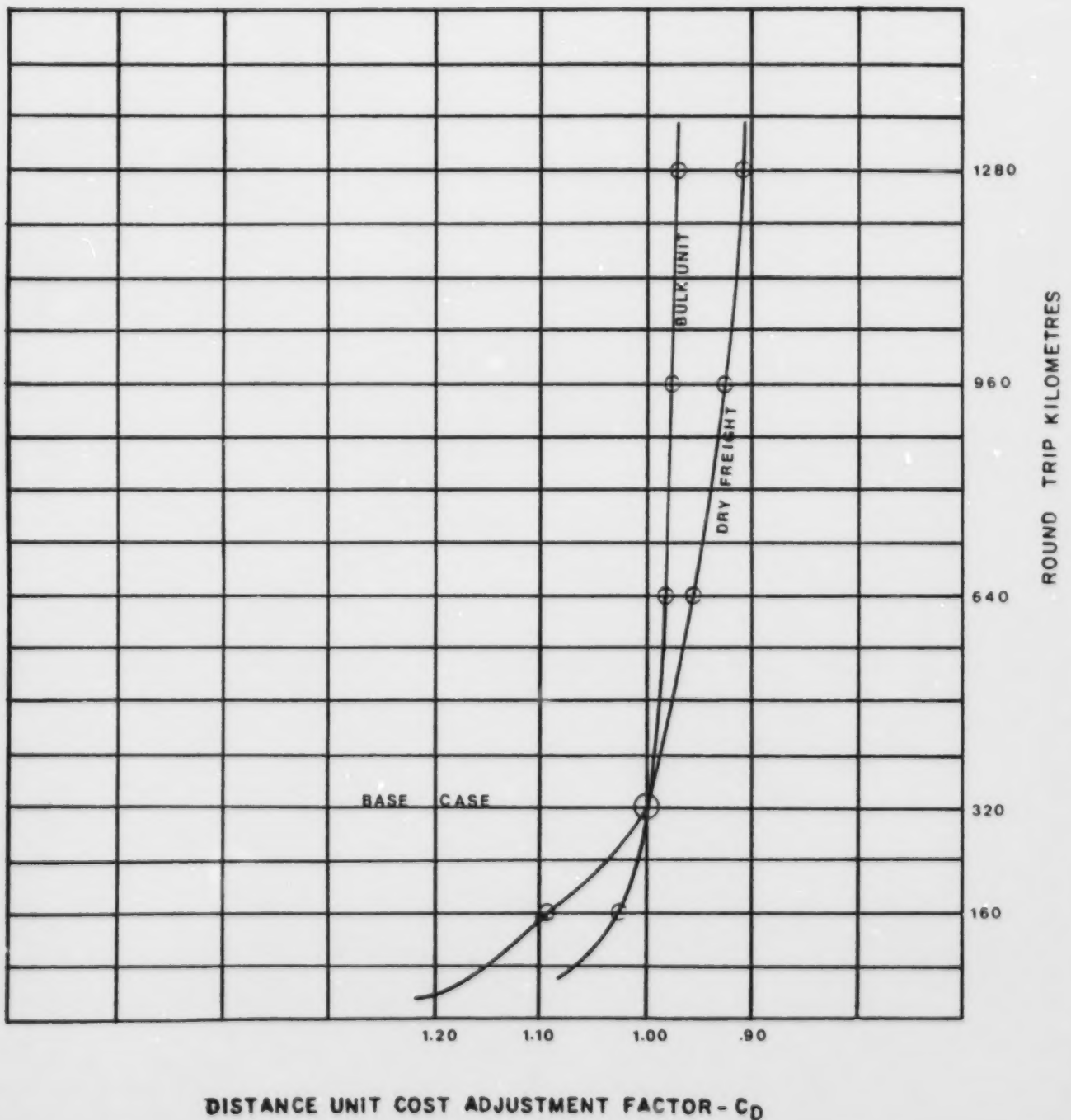
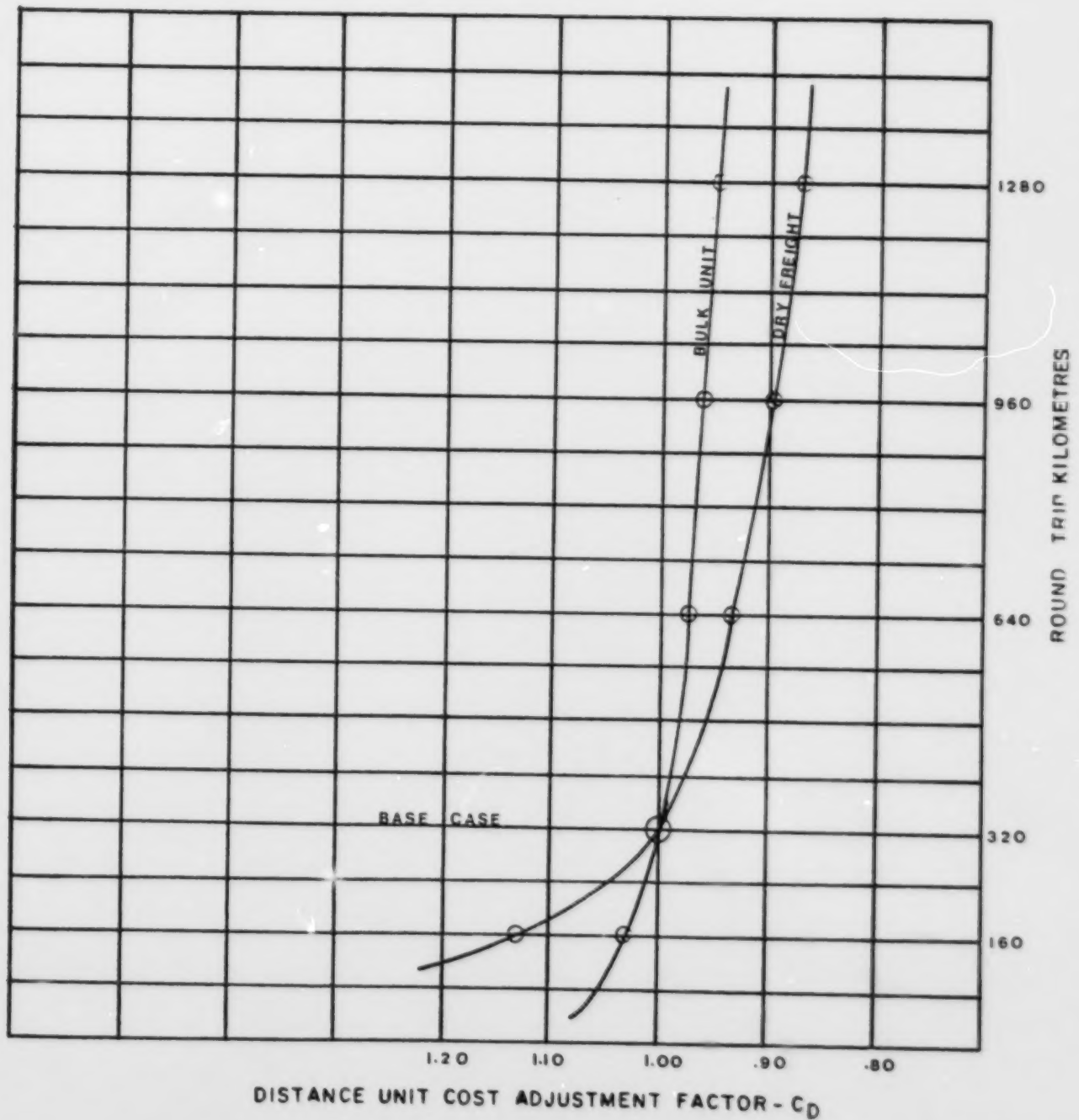


FIG. 3-9
 DISTANCE UNIT
 COST ADJUSTMENT
 FACTOR FOR
 7/8 AXLE TRAIN
 COMBINATIONS



* * * * *

operation. If vehicle utilization falls to 80,000 kilometres, the unit cost would become $\$1.96 \times 1.03 = \$2.02$ / kilometre.

3.5 ANNUAL DISTANCE UTILIZATION

As discussed in section 2.2.2, some feedback has been received questioning the validity of the 240,000 kilometre case for a dry freight operation with 320 kilometre round trips. To be sure, such a level of utilization would be uncommon, however, for reasons presented in section 2.2.2, the evaluation has been retained in the base case for use as a realistic upper limit utilization level. CAUTION MUST BE EXERCISED, HOWEVER, IN ATTEMPTING TO APPLY THESE COSTS TO SITUATIONS WHERE HOURS OF OPERATION, TERMINAL QUEUEING, OR OTHER FACTORS MITIGATE AGAINST ACHIEVEMENT OF SUCH A HIGH VEHICLE UTILIZATION LEVEL.

Another question which arises, however, is how to account for annual vehicle utilization levels which differ from the particular levels charted in our base case analysis.

A relatively straightforward approach is to use an interpolative technique by referral to the base case utilizations tabulated in section 5 (or summarized in 3.2).

.....

Example

To develop unit operating costs for a two-axle gasoline powered dry freight vehicle (paved roads) in Manitoba, with a utilization of 50,000 annual km, the calculation is as follows:

$$\text{Unit cost (50,000 km)} = (50000 - 40000) / (80000 - 40000) \times$$

$$(\text{unit cost 80000 km} - \text{unit cost 40000 km})$$

$$+ \text{unit cost 40000 km}$$

$$= (10000 / 40000) \times (225 - 238) + 238 \text{ cents/km}$$

$$= -3.25 \text{ cents/km} + 238 \text{ cents/km}$$

$$= \underline{234.75 \text{ cents/km.}}$$

The illustrated interpolative procedure should be relatively straightforward and will be slightly conservative within the base case tabulated utilization ranges. Because unit costs relate hyperbolically to utilization levels, CARE MUST BE EXERCISED IN EXTRAPOLATING UTILIZATION LEVELS OUTSIDE OF THE TABULATED RANGE, SINCE COSTS WILL TEND TO BE UNDERSTATED FOR SUCH EXTRAPOLATIONS. Hopefully, the utilization levels

tabulated in Section 5 will serve to bracket most practical operating situations that are likely to be encountered.

Again, since annual utilization is a complex product of speed, hours of operation, terminal queueing and productivity, vehicle type, and other fleet productivity related factors (downtime due to weather, maintenance factors, or shipment seasonal variations), care must be exercised in assuring that the assumptions used in the base case analysis apply to any given situation. For situations which are widely different, a detailed analysis/simulation of costs on an individual component basis may be indicated as opposed to a factoring of costs presented herein.

3.6 SPECIALIZED EQUIPMENT APPLICATIONS

Since 1978, there have been a number of requests for methods to estimate costs in situations where particular equipment configurations are different from the vehicle specifications presented in section 2.2.4.

Although care must be exercised in developing these estimations, adjustments can be made provided that the analyst has access to reliable equipment purchase cost information for the equipment configuration of interest. Our base case information is based on discussions with equipment suppliers concerning the cost to a medium sized

fleet operator of purchasing equipment as outlined in section 2.2.4. Costs used represent manufacturer's list price including sales taxes less typical fleet purchaser's discounts in the various market locales. The values are tabulated in Appendix Table A.3.

Principal factors that require adjustment for a specialized equipment scenario relate to fixed equipment costs including depreciation, licenses, and overhead charges. An informed analyst, therefore, may adjust these factors from the base case schedules using cost ratios developed between actual quotations for these parameters compared to the values tabulated in Appendix Tables A.3 and A.4. This is best illustrated using an example.

Example

Consider a costing scenario for a British Columbia based operator using a 5-axle bulk unit for which tractor purchase cost is \$119,400 (as opposed to \$108,595 in our base case) and trailer purchase is \$74,500 compared to our base case value of \$52,311. All other factors and parameters (such as wages, productivity, fuel, tires, etc.) are not appreciably different from our 240,000 km/yr bulk case.

* * * * *

Steps in developing an approximate adjustment to our base case analysis are as follows:

- 1) Develop depreciation adjustment factors (separately) for tractor and trailer costs, using the formula:

$$\text{Depreciation New} = \text{Depreciation Base Case} \times fd$$

where:

$$fd = (\text{Depreciation New}) / (\text{Depreciation Base Case})$$

$$= (\text{Capital Cost New}) / (\text{Capital Cost Base Case})$$

In our example:

$$fd \text{ (tractor)} = 119,400 / 108,595 = 1.099$$

$$fd \text{ (trailer)} = 74,500 / 52,311 = 1.424$$

- 11) Develop license cost adjustments (if any) using a similar ratio approach and Table A.4. (In our example, these ratios are 1.0 as no differences are assumed)

.....

iii) Referring to the base case evaluation in section 5, note applicable total cost and component costs represented by equipment related cost components (i.e. - tractor depreciation, licenses; trailer depreciation, licenses).

For our base case evaluation, these factors are (see section 5):

Total Operating Cost	=	129 cents/km
Tractor depreciation	=	7.2 cents/km
Tractor licenses	=	0.6 cents/km
Trailer depreciation	=	2.6 cents/km
Trailer licenses	=	0 cents/km

iv) Applying factors cited in (ii), develop direct equipment related cost adjustments using the formula:

Additional cost = $(f-1) \times \text{old cost}$

or, in our example:

Extra tractor depreciation = $7.2 \times (1.099 - 1)$
 = 0.7 cents / km

Extra trailer depreciation = $2.6 \times (1.424 - 1)$
 = 1.1 cents / km

.....

$$\begin{aligned} \text{Extra tractor licenses} &= \text{extra trailer licenses} \\ &= 0 \end{aligned}$$

- v) Now factor for interest and overhead adjustments (percentage related factors, see 2.4.9 and 2.4.10) using the formula:

$$\begin{aligned} \text{Total cost adjustment} &= 100 / (100 - (14 + 3 + 10)) \times \\ &\quad (\text{Extra costs in iv}) \end{aligned}$$

$$\begin{aligned} &= (100/73) \times (\text{extra tractor/} \\ &\quad \text{trailer costs}) \end{aligned}$$

In our example,

$$\begin{aligned} \text{Total cost adjustment} &= (.7 + 1.1 \text{ cents/km}) \times (100/73) \\ &= 2.5 \text{ cents/km.} \end{aligned}$$

Thus, for our specialized example, adjusted total operating costs are equal to 129 cents/km plus 2.5 cents/km or, 131.5 cents/km.

3.7 EXAMPLE APPLICATION - Combined Variations

In the event of several deviations from the base case assumptions, all factors cited in Sections 3.2 through 3.6 should be applied in a multiplicative fashion. If applicable, the analysis in section 3.6 should be applied first followed by 3.5, followed by the factors in 3.2 through 3.4.

Example

Consider a five-axle dry freight operation in Ontario which achieves 240,000 kilometres per year equipment utilization on hauls with average payload of 15,000 kg (.66 of base value), roughly 80 percent of miles loaded, paved roads, average round trip length of 640 kilometres. Develop costs for this predominantly wintertime operation.

Base case per kilometre cost = 131 cents/km

From Table 3.5, $C_w = 1.071$ (winter factor)

From Figure 3.2, $C_p = 0.990$ (payload = .66 base case)

From Figure 3.5, $C_{em} = 1.017$ (20 percent of miles
empty)

From Figure 3.8, $C_d = 0.95$ (640 kilometre round
trip)

Combining these factors in one analysis, the
estimated costs of operation are:

$$\begin{aligned} &= 131 \text{ cents/km} \times C_w \times C_p \times C_{em} \times C_d \\ &= 131 \text{ cents/km} \times 1.071 \times 0.990 \times 1.017 \times 0.95 \\ &= \underline{134.2 \text{ cents/kilometre}} \end{aligned}$$

4.0 LEASE OPERATOR AND T.O.F.C. (TRAILER ON FLAT CAR)
ALTERNATIVES

Beginning with the 1986 edition of Operating Costs of Trucks in Canada, it had been requested that the "cost impact" for a fleet operator to use "lease operator" or T.O.F.C. services be illustrated and discussed. Following sections 4.1 and 4.2 discuss these services, and present examples which make use of the "base case" evaluations presented in Section 5.

It is not the intention of this chapter to fully explore, document, and survey either of these services -- which would represent a major undertaking, for each. The intent is to make for a more complete understanding for these service options and the situations to which they might be applicable.

4.1 USE OF LEASE OPERATORS

In this service option, the motor carrier firm provides all administrative services (including marketing, operations management, documentation, accounting, invoicing, etc.), generally "dispatches and manages" the haul from its field branch locations, and (usually) provides the trailer unit to

use for the haul.

In a less common hauling situation, the lease operator also is responsible for providing the trailer to be used for the haul. For example, many "produce haulers" provide both a power unit and a refrigerated van trailer and this type of arrangement is also sometimes seen for flat deck equipment. As noted previously, the more usual service option is where the lease operator provides the power unit and the carrier provides the trailer.

The power unit (and driver) is a sub-contracted service, independently owned, and "leased" by the carrier to provide tractor service in connection with the haul.

Advantages to the carrier in using this type of service option, as opposed to a company owned unit and a company driver are as follows:

- Fleet capacity flexibility. The carrier can more readily adapt to short term increases and decreases in traffic volumes, without maintaining an excessive capital investment. If the "lease operator" is successful in obtaining additional work which is complementary to the carrier's activity -- efficiency benefits accrue to all concerned.

- Simplicity. Often, use of "lease operators" will diminish the need for many administrative and maintenance functions. Some companies are known to operate selected "branch terminals" with 100 percent leased power, thereby eliminating the need to provide maintenance and other services which might be required to operate a small fleet in that market location.
- Cost productivity. Many "lease operators" are more efficient than company driven units because the operator has a greater "stake" or "incentive" to keep utilization high. These "savings" can make for a more efficient operation. Further, the "owner-operator" has a direct incentive to care for his unit.

Difficulties, or disadvantages to use of "lease operators" include:

- Non-Standardization. It is more difficult, if not impossible, to provide "standard" equipment and service using "lease operators" compared to company power. The market is generally in a state of flux which sees "lease operators" move about between assignments with various carriers. In some situations, "lease equipment" is to a company

"standard" -- even down to being painted in company colors. These are usually the exceptional situations.

- Service Reliability. When a company driver "resigns", the carrier needs to locate a replacement. When a lease operator "resigns", a replacement driver and truck must also be found. Thus, in situations where high service availability/reliability of dedicated transport equipment is required, the "basic fleet" should generally consist of company units, with an additional percentage that can be "lease operator". This provides a useful "guage" for the company units' cost efficiency performance, yet assures dedicated customer service by the "core fleet".
- Customer Contact. For hauls where considerable driver-customer contact is required (eg. driver provides order taking and other "sales/service" functions), it is usually better to have a carrier employee act as representative for the firm, than to have a "sub-contracted" driver-owner do these functions.

4.1.1 Lease Operator Compensation

The "price" for lease operator services is somewhat more complicated than is the "wage market" for drivers as depicted in Appendix Table A.1.

In order to understand "pricing", it is first important to know what is being provided by the lease operator and what is being provided by the carrier. This can vary from carrier to carrier, lease operator to lease operator, and also with the given haul/distance/commodity situation.

For example, in some instances the carrier supplies fuel and maintenance services to the lease operator at a reduced price (reflecting corporate discounts and preventive maintenance standards). In addition, the carrier or the lease operator may pay for the licenses, permits, and tolls incurred in hauling. Another question to be understood is "who provides what portion of the required insurance?" In some applications, the power unit must be provided with extra equipment such as blowers, pumps, hydraulic lift equipment. These can be either lease operator or carrier supplied and will be reflected in the "price". In other situations, the lease operator may have the option of joining and participating in a company benefit program.

After addressing the issue of "what the compensation

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covers", there are numerous "units of compensation" in common use. In a review of compensation agreements for a major carrier in Canada, it was found that the same carrier had agreements in place which required payment to lease operators using "\$ per trip", "\$ per hour", "cents per mile", "\$ per unit quantity hauled", and "percent of haul revenue". Each of these was specific to a particular hauling market/product situation. In addition to "basic payment for the service", there were also a variety of "incentive" systems such as a flat payment per load for backhaul (to cover additional load/unload time delay involved) plus a "cents per mile" bonus for return miles with backhaul involved.

All of this information serves to illustrate the difficulties which will need to be addressed if a national "survey" of lease operator "costs" or "pricing" is ever undertaken to develop useful and reliable information about this segment of the industry.

The following relatively straightforward examples illustrate how the base case hauling analyses in section 5 can be adjusted to account for lease operator hauling. In order to do this adjustment, the analyst needs to know the lease operator compensation package, as well as what detailed items to delete from the base case analysis.

Example 1

In a relatively straightforward bulk lease operator agreement for Alberta, the compensation schedule for a lease operator providing a "driver and tractor" varies with trip length as follows:

ONE WAY LOADED

TRIP DISTANCE	C O M P E N S A T I O N
0 - 48 KM	\$69.00 PER TRIP
49 - 64 KM	\$81.94 PER TRIP
65 - 72 KM	\$88.28 PER TRIP
73 - 88 KM	\$96.78 PER TRIP
81 - 96 KM	\$106.00 PER TRIP
97 - 200 KM	54.6 CENTS/KM DRIVEN
201 + KM	54.2 CENTS/KM DRIVEN

Consider a high utilization (240,000 km/year) five axle semi trailer in Alberta hauling bulk commodities. In the base scenario (see section 5), one way loaded distance is 1/2 of 320 km, or 160 km.

For this scenario, from section 5, the "company truck" has a total operating cost of 111 cents per kilometre, of which the tractor sub-total cost is 67.5 cents/kilometre. From the schedule above, it

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can be seen that use of a lease operator may be secured for 54.6 cents/kilometre. It is assumed that "administration" and "insurance" coverage are still provided by the carrier, not the lease operator, and that any supplied items such as "fuel" are compensated by the lease operator "at cost".

The saving is 67.5 cents/kilometre - 54.6 cents

/kilometer

= 12.9 cents/kilometre

The hauling cost for the 160 km haul (320 km round trip) is therefore:

= 111 cents/km - 12.9 cents/km

= 98.1 cents/km.

Example 2

Consider the previous Alberta lease operator schedule applied to a low utilization (80,000 km/year), five-axle bulk situation where average haul distance is 40 km one-way (80 km round trip).

From Section 5 and Figure 3.8, for the company truck option, the unit cost is:

$$= 143.4 \text{ cents/kilometre} \times 1.08$$

$$= 155 \text{ cents/kilometre.}$$

Note that from Section 5, the "non tractor cost" is equal to $143.4 - 84.7 \text{ cents/km} = 58.7 \text{ cents/km}$.

Assuming that most of the "distance taper" in Figure 3.8 is due to driver cost factors (prorating the load/unload time cost over a longer or shorter trip distance), for the 80 km round trip, the "non tractor costs" should remain approximately constant at 58.7 cents/km.

Thus, for the lease operator option, the unit cost is:

$$= (\text{Lease operator cost}) + \text{"non tractor cost"}$$

$$= (869.00/80 \text{ km}) \times (100 \text{ cents/\$}) + 58.7 \text{ cents/km}$$

$$= 86.25 \text{ cents/km} + 58.7 \text{ cents/km}$$

$$= \underline{144.95 \text{ cents/km}}$$

* * * * *

The use of a lease operator for this short haul at 144.95 cents/km is an improvement over the base case company unit cost of 155 cents/km as previously computed.

As noted previously, CARE MUST BE TAKEN IN EVALUATING LEASE OPERATOR COSTS, AND IN COMPARING THESE WITH THE BASE CASE SITUATIONS PRESENTED IN THIS REPORT -- WHICH TEND TO REFLECT FLEET COMPANY OPERATIONS, NOT THE LEASE OPERATOR MARKET. IN DOING ANY SUCH COMPARISONS, IT IS IMPORTANT TO CONSIDER ALL COST COMPONENTS (SUCH AS LICENSES, INSURANCE, TRANSPORT, FUEL, REPAIRS, WAGE BENEFITS/BURDENS) AND WHO IS RESPONSIBLE FOR EACH. FURTHER, THE LEASE OPERATOR COMPENSATION SCHEDULE MUST BE KNOWN FOR THE SPECIFIC HAUL IN QUESTION. IT IS NOT EASY TO GENERALIZE "COSTS" OR "PRICES" FOR THIS MARKET, AS LEASE OPERATOR COMPENSATION SCHEDULES ARE VARIOUSLY SET IN TERMS OF \$/TRIP, \$/HR, CENTS/MILE, \$/UNIT QUANTITY HAULED, OR AS A PERCENT OF HAUL REVENUE.

4.2 USE OF T.O.F.C. (TRAILER ON FLAT CAR)

In 1985, Trimac Consulting Services was retained by Transport Canada to investigate and evaluate the energy and economic implications of T.O.F.C. (Trailer on Flat Car) services in Canada. A key finding of this study was that for hauls under 350 miles (565 km), direct truck was

generally more economical than T.O.F.C. under various specified assumed conditions of utilization and "lane balance".

In this study, "service characteristics" were not investigated, although it was noted that T.O.F.C. is primarily oriented to "trailerable finished goods" NOT REQUIRING "express", or "fast freight" service.

Example corridors, amenable to T.O.F.C., which were investigated in the previous study include:

Lane	Scheduled Rail Transit Time (Hr)	Assumed Trucking Distance	
		(Miles)	(Km)
----	-----	-----	----
Toronto- Montreal	9	334	538
Toronto- Winnipeg	36	1297	2087
Toronto- Vancouver	84	2774	4464

T.O.F.C. Plan 1 tariffs (see the 1985 study report for a

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discussion of T.O.F.C. "Plans") for these corridors were secured in 1985 and have been "updated" for purposes of illustrating the comparison between T.O.F.C. and direct trucking services in the form of "worked examples" for these corridors.

In doing these comparisons, it should be noted that T.O.F.C. is a railway provided service. It is therefore mandatory that the analyst be familiar with railway pricing strategy and options, which underly the tariff structure in order to develop similar cost "comparisons" to the example corridors which are discussed herein.

Note that Plan 1 is "exclusive" of costs for local trailer pick up and delivery to customer premises from the railway intermodal yards, which must be "added", together with "trailer ownership costs", to compute the total transportation costs "door to door". The Plan 1 T.O.F.C. tariffs which were secured for the corridors in question

(and updated for this analysis) are as follows:

		All values in \$ per		
Plan 1 Tariff For		trailer load one-way		
Corridor	1986	1988	Tariff	Item
*****	****	****	*****	****
Toronto-Montreal	\$322	\$342	CP- 7531-A	201
Toronto-Winnipeg	\$1228- \$1385	\$1604	CP- 7531-A	281
Toronto-Vancouver	\$2688- \$3037	\$3559	CP- 7531-A	281

Using this information, together with base case and distance adjustment factors from sections 5 and 3 of this report, the economic cost of T.O.F.C. services can be compared with high utilization general freight trucking services (say 240,000 km/yr). In addition, assuming a pick up and delivery round trip time of 2 hours at each major delivery centre (for a low utilization truck), the hourly costs in Section 5 may be used to estimate local pick up and delivery costs to apply to the T.O.F.C. option. Hourly equivalent "trailer ownership costs" (depreciation and licenses) can also be

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estimated from Section 5.

Following sections 4.2.1 and 4.2.2 describe the T.O.F.C. and direct truck options, respectively for these corridors.

4.2.1 T.O.F.C. Example Costs

The preceding table provides "one-way" rail tariffs for the movement of trailers between intermodal yards for the example corridors in question.

From section 5, the estimated average hourly truck and trailer operation costs (5 axle semi trailer, dry freight, 80,000 km utilization) for each of Toronto, Montreal, Winnipeg, and Vancouver are \$91.20, \$90.68, \$88.37, and \$98.84 respectively. These hourly cost figures can be applied to an assumed 2 hour round trip to compute approximate costs for trailer "spotting".

Averaged trailer fixed costs per hour (high utilization basis, each province, "blended") for each corridor are Toronto-Montreal 98 cents/hr, Toronto-Winnipeg 97 cents/hr, and Toronto-Vancouver 97 cents/hr.

Combining the above information to compute "per trailer one-way" costs to the truck operator, if T.O.F.C. is used,

yields the following analysis:

1) Toronto to Montreal

Pickup in Toronto:	2 hr x \$91.20	=	\$182.40
Transit to Montreal:	\$342	=	\$342.00
Trailer Ownership:	9 hr x \$0.98	=	\$8.82
<u>Delivery in Montreal:</u>	<u>2 hr x \$90.68</u>	<u>=</u>	<u>\$181.36</u>
TOTAL COST/TRAILER (ONE WAY)			\$714.58

2) Toronto to Winnipeg

Pickup in Toronto:	2 hr x \$91.20	=	\$182.40
Transit to Winnipeg:	\$1604	=	\$1604.00
Trailer Ownership:	36 hr x \$0.97	=	\$34.92
<u>Delivery in Winnipeg:</u>	<u>2 hr x \$88.37</u>	<u>=</u>	<u>\$176.74</u>
TOTAL COST/TRAILER (ONE WAY)			\$1998.06

3) Toronto to Vancouver

Pickup in Toronto:	2 hr x \$91.20	=	\$182.40
Transit to Vancouver:	\$3559	=	\$3559.00
Trailer Ownership:	84 hr x \$0.97	=	\$81.48
<u>Delivery in Vancouver:</u>	<u>2 hr x \$98.84</u>	<u>=</u>	<u>\$197.68</u>
TOTAL COST/TRAILER (ONE WAY)			\$4020.56

These estimated "door to door" costs, for using T.O.F.C., can be compared to the costs for direct trucking the same routes as noted in following section 4.2.2.

4.2.2 Direct Trucking Example Costs

For comparison of approximate over the road costs, the base case high utilization five-axle dry freight cases for each of Ontario, Quebec, Manitoba, Saskatchewan, Alberta, and B.C. were examined. Respectively, the base case per kilometer operating costs were 130.9 cents/km, 129.3 cents/km, 125.9 cents/km, 120.8 cents/km, 128.4 cents/km, and 144.0 cents/km.

From Figure 3.8, the distance adjustment factor for longer trips was noted to be 0.9 and the empty miles adjustment factor (for 0 percent empty miles -- assuming "balanced two way flows") was 1.03.

Applying this information to the corridors in question, the one-way trucking costs per trailer delivered were as follows:

1) Toronto to Montreal

$$\begin{aligned} & \text{Avg } (130.9, 129.3) \text{ cents/km} \times .9 \times 1.03 \times 538 \text{ km} \\ & = \underline{\$648.84 / \text{trailer one-way.}} \end{aligned}$$

Direct trucking costs, continued.

2) Toronto to Winnipeg

Avg (130.9, 125.9) cents/km x .9 x 1.03 x 2087 km
= \$2484.09 / trailer one-way.

3) Toronto to Vancouver

Avg (130.9, 125.9, 120.8, 128.4, 144.0) cents/km x
.9 x 1.03 x 4464 km
= \$5379.57 / trailer one-way.

4.2.3 T.O.F.C. and "Direct Trucking" Compared

The analysis presented in preceding sections 4.2.1 and 4.2.2 demonstrates the applicability of T.O.F.C. to longer distance hauling applications. For the Toronto-Montreal example, it is seen that T.O.F.C. and "direct trucking" are both in the \$650 to \$700 price range to deliver a trailer "door to door". For Toronto to Vancouver, the T.O.F.C. through cost of \$4000 compares very favorably with "direct trucking" at \$5400.

In structuring the types of comparisons presented in this section, the analyst must exercise care that valid rail tariffs for T.O.F.C. service are being applied together with realistic truck "pick up and delivery" and transit time

assumptions. If this is done, the hourly costs for trailer "spotting" and for "trailer ownership" can be secured from tables in Section 5 to assist in the evaluation.

Note also that the example analyses ignore the service question whether T.O.F.C. will provide adequate delivery response in comparison to direct truck.

For a more detailed understanding of T.O.F.C. service in Canada, interested readers are referred to the 1985 study undertaken by Transport Canada.

5.0 BASE CASE COMPONENT ANALYSES

The following tables provide detailed hauling analysis results developed on a mid 1988 cost basis for:

- 2 Axle Trucks Gasoline Dry Freight
- 2 Axle Trucks Diesel Dry Freight
- 2 Axle Trucks Gasoline Bulk
- 2 Axle Trucks Diesel Bulk
- 5 Axle Semi Trailer Dry Freight
- 5 Axle Semi Trailer Bulk
- 7/8 Axle Semi Trailer and Pup Dry Freight
- 7/8 Axle Semi Trailer and Pup Bulk

2 AXLE TRUCK

GASOLINE

DRY FREIGHT

Configuration -- 2 axle straight truck (gasoline) British Columbia

Commodity -- Dry Freight Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	2360 tonnes	2360 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 20643	\$ 20643
Wage burden	\$ 11015	\$ 11015

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,658	25.47	79.1	Tractor variable costs	31,658	25.47	79.1
6,890	5.54	17.2	Driver	6,890	5.54	17.2
6,805	5.48	17.0	Fuel	8,166	6.57	20.4
104	0.08	0.3	Repairs	104	0.08	0.3
			Cleaning			
			Transport			
1,683	1.35	4.2	Tires	2,406	1.94	6.0
47,140	37.92	117.8	Total tractor variable	49,224	39.60	123.0
			Tractor fixed costs			
7,418	5.97	18.5	Depreciation	7,418	5.97	18.5
426	0.34	1.1	Licences	426	0.34	1.1
7,844	6.31	19.6	Total tractor fixed	7,844	6.31	19.6
			Tractor total	57,068	45.91	142.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
54,984	44.23	137.4	Total vehicle costs	57,068	45.91	142.6
			Insurance costs	3,352	2.70	8.4
3,266	2.63	8.2	Admin. and interest	15,643	12.59	39.1
15,243	12.27	38.1	Pickup and delivery	24,500	19.71	61.3
24,500	19.71	61.3	Profit	11,174	8.99	27.9
10,888	8.76	27.2	Total operating cost	111,737	89.90	279.3
100,881	87.60	272.2				

..... Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	2,601 tons
B. Total Operating Cost per mile (cents/mile)	
Paved roads	438.1
Gravel roads	449.5
Total Operating Cost	449.5

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Configuration -- 2 axle straight truck (gasoline)

British Columbia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	4720 tonnes	4720 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 41285	\$ 41285
Wage burden	\$ 22029	\$ 22029

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
63,314	25.47	79.1	Tractor variable costs	63,314	25.47	79.1
13,780	5.54	17.2	Driver	13,780	5.54	17.2
13,609	5.48	17.0	Fuel	16,331	6.57	20.4
208	0.08	0.3	Repairs	208	0.08	0.3
			Cleaning			
			Transport			
3,366	1.35	4.2	Tires	4,813	1.94	6.0
94,277	37.92	117.8	Total tractor variable	98,446	39.60	123.0
			Tractor fixed costs			
7,418	2.98	9.3	Depreciation	7,418	2.98	9.3
426	0.17	0.5	Licences	426	0.17	0.5
7,844	3.15	9.8	Total tractor fixed	7,844	3.15	9.8
102,121	41.07	127.6	Tractor total	106,290	42.75	132.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
102,121	41.07	127.6	Total vehicle costs	106,290	42.75	132.8
6,210	2.50	7.8	Insurance costs	6,382	2.57	8.0
28,982	11.66	36.2	Admin. and interest	29,782	11.98	37.2
49,000	19.71	61.3	Pickup and delivery	49,000	19.71	61.3
20,701	8.33	25.9	Profit	21,273	8.56	26.6
207,014	83.27	258.8	Total operating cost	212,727	85.57	265.9

Imperial Equivalent Summary

A. Annual distance travelled	--	49,712 mi.
Gross vehicle weight	--	32,187 lbs.
Average payload	--	13,007 lbs.
Estimated annual quantity	--	5,203 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

416.5

Total Operating Cost 427.9

Configuration -- 2 axle straight truck (gasoline) British Columbia

Commodity -- Dry Freight Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	7080 tonnes	7080 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 61928	\$ 61928
Wage burden	\$ 33044	\$ 33044

C. Total Operating Costs	
Paved Roads	Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
94,972	25.47	79.1	Tractor variable costs	94,972	25.47	79.1
20,669	5.54	17.2	Driver	20,669	5.54	17.2
20,414	5.48	17.0	Fuel	24,497	6.57	20.4
312	0.08	0.3	Repairs	312	0.08	0.3
			Cleaning			
			Transport			
5,048	1.35	4.2	Tires	7,219	1.94	6.0
141,415	37.92	117.8	Total tractor variable	147,669	39.60	123.0
			Tractor fixed costs			
7,418	1.99	6.2	Depreciation	7,418	1.99	6.2
426	0.11	0.4	Licences	426	0.11	0.4
7,844	2.10	6.6	Total tractor fixed	7,844	2.10	6.6
149,259	40.02	124.4	Tractor total	155,513	41.70	129.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
149,259	40.02	124.4	Total vehicle costs	155,513	41.70	129.6
9,154	2.46	7.6	Insurance costs	9,411	2.52	7.8
42,721	11.46	35.6	Admin. and interest	43,920	11.78	36.6
73,499	19.71	61.2	Pickup and delivery	73,499	19.71	61.2
30,515	8.18	25.4	Profit	31,372	8.41	26.1
305,140	81.83	254.2	Total operating cost	313,715	84.12	261.3

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	7,804 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

409.1 Total Operating Cost 420.5

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	16400 kg.	16400 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	2534 tonnes	2534 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 18542	\$ 18642
	Wage burden	\$ 10981	\$ 10981

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
29,623	23.84	74.1	Tractor variable costs	29,623	23.84	74.1
6,113	4.92	15.3	Driver	6,113	4.92	15.3
5,537	4.46	13.8	Fuel	6,645	5.35	16.6
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,627	1.31	4.1	Tires	2,326	1.87	5.8
43,879	34.67	107.7	Total tractor variable	44,886	36.12	112.2
			Tractor fixed costs			
6,998	5.63	17.5	Depreciation	6,998	5.63	17.5
458	0.37	1.1	Licences	458	0.37	1.1
7,456	6.00	18.6	Total tractor fixed	7,456	6.00	18.6
			Tractor total	52,342	42.12	130.8
50,535	40.67	126.3	Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
50,535	40.67	126.3	Total vehicle costs	52,342	42.12	130.8
3,053	2.46	7.6	Insurance costs	3,127	2.52	7.8
14,248	11.46	35.6	Admin. and interest	14,594	11.74	36.5
23,756	19.12	59.4	Pickup and delivery	23,756	19.12	59.4
10,177	8.19	25.4	Profit	10,424	8.39	26.1
101,769	81.90	254.3	Total operating cost	104,243	83.89	260.6

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	36,155 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

409.2

Total Operating Cost 419.4

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	5068 tonnes	5068 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 37283	\$ 37283
Wage burden	\$ 21962	\$ 21962

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
59,245	23.84	74.1	Driver	59,245	23.84	74.1
12,227	4.92	15.3	Fuel	12,227	4.92	15.3
11,074	4.46	13.8	Repairs	13,289	5.35	16.6
358	0.14	0.4	Cleaning	358	0.14	0.4
			Transport			
3,254	1.31	4.1	Tires	4,653	1.87	5.8
86,158	34.67	107.7	Total tractor variable	89,772	36.12	112.2
			Tractor fixed costs			
6,998	2.82	8.7	Depreciation	6,998	2.82	8.7
458	0.18	0.6	Licences	458	0.18	0.6
7,456	3.00	9.3	Total tractor fixed	7,456	3.00	9.3
93,614	37.67	117.0	Tractor total	97,228	39.12	121.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
93,614	37.67	117.0	Total vehicle costs	97,228	39.12	121.5
5,800	2.33	7.3	Insurance costs	5,948	2.39	7.4
27,065	10.89	33.8	Admin. and interest	27,759	11.17	34.7
47,513	19.12	59.4	Pickup and delivery	47,513	19.12	59.4
19,332	7.78	24.2	Profit	19,828	7.98	24.8
193,324	77.79	241.7	Total operating cost	198,276	79.78	247.8

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

389.0

Total Operating Cost 398.8

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Dry Freight

Annual distance -- 120000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	7602 tonnes	7602 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 55925	\$ 55925
Wage burden	\$ 32943	\$ 32943

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
88,868	23.84	74.1	Tractor variable costs	88,868	23.84	74.1
18,340	4.92	15.3	Driver	18,340	4.92	15.3
16,611	4.46	13.8	Fuel	19,934	5.35	16.6
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
4,891	1.31	4.1	Tires	6,979	1.87	5.8
129,237	34.67	107.7	Total tractor variable	134,658	36.12	112.2
			Tractor fixed costs			
6,998	1.88	5.8	Depreciation	6,998	1.88	5.8
458	0.12	0.4	Licences	458	0.12	0.4
7,456	2.00	6.2	Total tractor fixed	7,456	2.00	6.2
136,693	36.67	113.9	Tractor total	142,114	38.12	118.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
136,693	36.67	113.9	Total vehicle costs	142,114	38.12	118.4
8,546	2.29	7.1	Insurance costs	8,769	2.35	7.3
39,883	10.70	33.2	Admin. and interest	40,923	10.98	34.1
71,269	19.12	59.4	Pickup and delivery	71,269	19.12	59.4
28,488	7.64	23.7	Profit	29,231	7.84	24.4
284,879	76.42	237.3	Total operating cost	292,306	78.41	243.6

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

381.9

Total Operating Cost

392.0

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14600 kg.	14600 kg.
	Average Payload	5445 kg.	5445 kg.
	Estimated Annual Quantity	2178 tonnes	2178 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 17113	\$ 17113
	Wage burden	\$ 8857	\$ 8857

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
25,970	20.90	64.9	25,970	20.90	64.9
6,418	5.16	16.0	6,418	5.16	16.0
4,560	3.67	11.4	5,472	4.40	13.7
187	0.15	0.5	187	0.15	0.5
1,614	1.30	4.0	2,308	1.86	5.8
38,749	31.18	96.8	40,355	32.47	100.9
Tractor fixed costs					
7,488	6.03	18.7	7,488	6.03	18.7
674	0.54	1.7	674	0.54	1.7
8,162	6.57	20.4	8,162	6.57	20.4
46,911	37.75	117.2	48,517	39.04	121.3
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
46,911	37.75	117.2	48,517	39.04	121.3
Total vehicle costs					
2,698	2.17	6.7	2,764	2.22	6.9
12,591	10.13	31.5	12,899	10.38	32.2
18,744	15.08	46.9	18,744	15.08	46.9
8,994	7.24	22.5	9,214	7.41	23.0
89,938	72.37	224.8	92,138	74.13	230.3
Total operating cost					

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	32,187 lbs.
	Average payload --	12,004 lbs.
	Estimated annual quantity --	2,401 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
361.8	Total Operating Cost 370.6

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5445 kg.	5445 kg.
Estimated Annual Quantity	4356 tonnes	4356 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 34226	\$ 34226
Wage burden	\$ 17714	\$ 17714

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,940	20.90	64.9	Tractor variable costs	51,940	20.90	64.9
12,835	5.16	16.0	Driver	12,835	5.16	16.0
9,120	3.67	11.4	Fuel	10,944	4.40	13.7
373	0.15	0.5	Repairs	373	0.15	0.5
			Cleaning			
			Transport			
3,228	1.30	4.0	Tires	4,616	1.86	5.8
77,496	31.18	96.8	Total tractor variable	80,708	32.47	100.9
			Tractor fixed costs			
7,488	3.01	9.4	Depreciation	7,488	3.01	9.4
674	0.27	0.8	Licences	674	0.27	0.8
8,162	3.28	10.2	Total tractor fixed	8,162	3.28	10.2
85,658	34.46	107.0	Tractor total	88,870	35.75	111.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
85,658	34.46	107.0	Total vehicle costs	88,870	35.75	111.1
5,061	2.04	6.3	Insurance costs	5,193	2.09	6.5
23,617	9.50	29.5	Admin. and interest	24,233	9.75	30.3
37,489	15.08	46.9	Pickup and delivery	37,489	15.08	46.9
16,869	6.79	21.1	Profit	17,309	6.96	21.6
168,694	67.87	210.8	Total operating cost	173,094	69.63	216.4

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
Gross vehicle weight -- 32,187 lbs.
Average payload -- 12,004 lbs.
Estimated annual quantity -- 4,802 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

339.2

Total Operating Cost

348.3

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14600 kg.	14600 kg.
	Average Payload	5445 kg.	5445 kg.
	Estimated Annual Quantity	6534 tonnes	6534 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 51339	\$ 51339
	Wage burden	\$ 26570	\$ 26570

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
77,909	20.90	64.9	Tractor variable costs	77,909	20.90	64.9
19,253	5.16	16.0	Driver	19,253	5.16	16.0
13,680	3.67	11.4	Fuel	16,416	4.40	13.7
560	0.15	0.5	Repairs	560	0.15	0.5
			Cleaning			
			Transport			
4,842	1.30	4.0	Tires	6,924	1.86	5.8
116,244	31.18	96.8	Total tractor variable	121,062	32.47	100.9
			Tractor fixed costs			
7,488	2.01	6.2	Depreciation	7,488	2.01	6.2
674	0.18	0.6	Licences	674	0.18	0.6
8,162	2.19	6.8	Total tractor fixed	8,162	2.19	6.8
124,406	33.37	103.6	Tractor total	129,224	34.66	107.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
124,406	33.37	103.6	Total vehicle costs	129,224	34.66	107.7
7,423	1.99	6.2	Insurance costs	7,621	2.04	6.4
34,643	9.29	28.9	Admin. and interest	35,567	9.54	29.6
56,233	15.08	46.9	Pickup and delivery	56,233	15.08	46.9
24,745	6.64	20.6	Profit	25,405	6.81	21.2
247,450	66.37	206.2	Total operating cost	254,050	68.13	211.8

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	32,187 lbs.
	Average payload --	12,004 lbs.
	Estimated annual quantity --	7,202 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

331.8

Total Operating Cost 340.8

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
		15430 kg.	15430 kg.
	Gross Vehicle Weight	6335 kg.	6335 kg.
	Average Payload	2534 tonnes	2534 tonnes
	Estimated Annual Quantity	3.1 hrs.	3.1 hrs.
	Trip Running Time	1243 hrs.	1243 hrs.
	Annual Running Hours		
B.	Driver Costs	\$ 0	\$ 0
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 17113	\$ 17113
	Hourly wage	\$ 10120	\$ 10120
	Wage burden		

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,233	21.91	68.1	Tractor variable costs	27,233	21.91	68.1
6,606	5.32	16.5	Driver	6,606	5.32	16.5
4,397	3.54	11.0	Fuel	5,277	4.25	13.2
143	0.12	0.4	Repairs	143	0.12	0.4
			Cleaning			
			Transport			
1,379	1.11	3.4	Tires	1,972	1.59	4.9
39,758	32.00	99.4	Total tractor variable	41,231	33.19	103.1
			Tractor fixed costs			
7,488	6.03	18.7	Depreciation	7,488	6.03	18.7
502	0.40	1.3	Licences	502	0.40	1.3
7,990	6.43	20.0	Total tractor fixed	7,990	6.43	20.0
47,748	38.43	119.4	Tractor total	49,221	39.62	123.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
47,748	38.43	119.4	Total vehicle costs	49,221	39.62	123.1
2,858	2.30	7.1	Insurance costs	2,919	2.35	7.3
13,340	10.73	33.4	Admin. and interest	13,622	10.96	34.1
21,808	17.55	54.5	Pickup and delivery	21,808	17.55	54.5
9,528	7.67	23.8	Profit	9,730	7.83	24.3
95,282	76.68	238.2	Total operating cost	97,300	78.31	243.3

Imperial Equivalent Summary

A.	Annual distance travelled	--	24,856 mi.
	Gross vehicle weight	--	34,017 lbs.
	Average payload	--	13,966 lbs.
	Estimated annual quantity	--	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

383.3 Total Operating Cost 391.5

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	5068 tonnes	5068 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 34226	\$ 34226
	Wage burden	\$ 20239	\$ 20239

C. Total Operating Costs

P a v e d R o a d s G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
54,465	21.91	68.1	Driver	54,465	21.91	68.1
13,212	5.32	16.5	Fuel	13,212	5.32	16.5
8,794	3.54	11.0	Repairs	10,553	4.25	13.2
287	0.12	0.4	Cleaning	287	0.12	0.4
			Transport			
2,758	1.11	3.4	Tires	3,943	1.59	4.9
79,516	32.00	99.4	Total tractor variable	82,460	33.19	103.1
			Tractor fixed costs			
7,488	3.01	9.4	Depreciation	7,488	3.01	9.4
502	0.20	0.6	Licences	502	0.20	0.6
7,990	3.21	10.0	Total tractor fixed	7,990	3.21	10.0
87,506	35.21	109.4	Tractor total	90,450	36.40	113.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
87,506	35.21	109.4	Total vehicle costs	90,450	36.40	113.1
5,389	2.17	6.7	Insurance costs	5,510	2.22	6.9
25,147	10.12	31.4	Admin. and interest	25,711	10.34	32.1
43,616	17.55	54.5	Pickup and delivery	43,616	17.55	54.5
17,962	7.23	22.5	Profit	18,365	7.39	23.0
179,620	72.28	224.5	Total operating cost	183,652	73.90	229.6

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	34,017 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

361.3 Total Operating Cost 369.5

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
15430 kg.	15430 kg.
6335 kg.	6335 kg.
7602 tonnes	7602 tonnes
3.1 hrs.	3.1 hrs.
3728 hrs.	3728 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 0	\$ 0
\$ 0	\$ 0
\$ 51339	\$ 51339
\$ 30359	\$ 30359

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
81,698	21.91	68.1	Tractor variable costs	81,698	21.91	68.1
19,818	5.32	16.5	Driver	19,818	5.32	16.5
13,191	3.54	11.0	Fuel	15,830	4.25	13.2
430	0.12	0.4	Repairs	430	0.12	0.4
			Cleaning			
			Transport			
4,136	1.11	3.4	Tires	5,915	1.59	4.9
119,273	32.00	99.4	Total tractor variable	123,691	33.19	103.1
			Tractor fixed costs			
7,488	2.01	6.2	Depreciation	7,488	2.01	6.2
502	0.13	0.4	Licences	502	0.13	0.4
7,990	2.14	6.6	Total tractor fixed	7,990	2.14	6.6
127,263	34.14	106.0	Tractor total	131,681	35.33	109.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
127,263	34.14	106.0	Total vehicle costs	131,681	35.33	109.7
7,919	2.12	6.6	Insurance costs	8,100	2.17	6.8
36,954	9.91	30.8	Admin. and interest	37,801	10.14	31.5
65,425	17.55	54.5	Pickup and delivery	65,425	17.55	54.5
26,396	7.08	22.0	Profit	27,001	7.24	22.5
263,957	70.80	219.9	Total operating cost	270,008	72.43	225.0

***** Imperial Equivalent Summary *****

A. Annual distance travelled -- 74,568 mi.
Gross vehicle weight -- 34,017 lbs.
Average payload -- 13,966 lbs.
Estimated annual quantity -- 8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

353.9 Total Operating Cost 362.1

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	2534 tonnes	2534 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 17523	\$ 17523
Wage burden	\$ 10362	\$ 10362

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,885	22.44	69.7	Tractor variable costs			
7,364	5.93	18.4	Driver	27,885	22.44	69.7
5,564	4.48	13.9	Fuel	7,364	5.93	18.4
149	0.12	0.4	Repairs	6,677	5.37	16.7
			Cleaning	149	0.12	0.4
			Transport			
1,591	1.28	4.0	Tires	2,275	1.83	5.7
42,553	34.25	106.4	Total tractor variable	44,350	35.69	110.9
			Tractor fixed costs			
7,510	6.04	18.8	Depreciation	7,510	6.04	18.8
764	0.61	1.9	Licences	764	0.61	1.9
8,274	6.65	20.7	Total tractor fixed	8,274	6.65	20.7
50,827	40.90	127.1	Tractor total	52,624	42.34	131.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
50,827	40.90	127.1	Total vehicle costs	52,624	42.34	131.6
3,007	2.42	7.5	Insurance costs	3,000	2.48	7.7
14,030	11.29	35.1	Admin. and interest	14,375	11.57	35.9
22,331	17.97	55.8	Pickup and delivery	22,331	17.97	55.8
10,022	8.06	25.1	Profit	10,268	8.26	25.7
100,217	80.64	250.6	Total operating cost	102,678	82.62	256.7

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

403.3

Total Operating Cost 413.1

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Dry Freight

Annual distance -- 60000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road
 19000 kg.
 6335 kg.
 5068 tonnes
 3.1 hrs.
 2486 hrs.

Gravel Road
 19000 kg.
 6335 kg.
 5068 tonnes
 3.1 hrs.
 2486 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 0
 \$ 0
 \$ 35046
 \$ 20724

\$ 0
 \$ 0
 \$ 35046
 \$ 20724

C. Total Operating Costs
 Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
55,770	22.44	69.7	Tractor variable costs	55,770	22.44	69.7
14,727	5.93	18.4	Driver	14,727	5.93	18.4
11,129	4.48	13.9	Fuel	13,354	5.37	16.7
299	0.12	0.4	Repairs	299	0.12	0.4
			Cleaning			
			Transport			
3,182	1.28	4.0	Tires	4,550	1.83	5.7
85,107	34.25	106.4	Total tractor variable	88,700	35.69	110.9
			Tractor fixed costs			
7,510	3.02	9.4	Depreciation	7,510	3.02	9.4
764	0.31	1.0	Licences	764	0.31	1.0
8,274	3.33	10.4	Total tractor fixed	8,274	3.33	19.4
93,381	37.58	116.8	Tractor total	96,974	39.02	121.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
93,381	37.58	116.8	Total vehicle costs	96,974	39.02	121.3
5,673	2.28	7.1	Insurance costs	5,821	2.34	7.3
26,474	10.65	33.1	Admin. and interest	27,163	10.93	34.0
44,662	17.97	55.8	Pickup and delivery	44,662	17.97	55.8
18,910	7.61	23.6	Profit	19,402	7.81	24.3
189,100	76.09	236.4	Total operating cost	194,022	78.07	242.7

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 41,887 lbs.
 Average payload -- 13,966 lbs.
 Estimated annual quantity -- 5,586 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

380.4

Total Operating Cost 390.6

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Dry Freight

Annual distance -- 120000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	7602 tonnes	7602 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3720 hrs.	3720 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 52569	\$ 52569
Wage burden	\$ 31086	\$ 31086

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
83,655	22.44	69.7	Tractor variable costs	83,655	22.44	69.7
22,091	5.93	18.4	Driver	22,091	5.93	18.4
16,693	4.48	13.9	Fuel	20,031	5.37	16.7
448	0.12	0.4	Repairs	448	0.12	0.4
			Cleaning			
			Transport			
4,773	1.28	4.0	Tires	6,825	1.83	5.7
127,660	34.25	106.4	Total tractor variable	133,050	35.69	110.9
			Tractor fixed costs			
7,510	2.01	6.3	Depreciation	7,510	2.01	6.3
764	0.20	0.6	Licences	764	0.20	0.6
8,274	2.21	6.9	Total tractor fixed	8,274	2.21	6.9
135,934	36.46	113.3	Tractor total	141,324	37.90	117.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
135,934	36.46	113.3	Total vehicle costs	141,324	37.90	117.8
8,339	2.24	6.9	Insurance costs	8,561	2.30	7.1
38,917	10.44	32.4	Admin. and interest	39,951	10.72	33.3
66,993	17.97	55.8	Pickup and delivery	66,993	17.97	55.8
27,798	7.46	23.2	Profit	28,537	7.65	23.8
277,981	74.57	231.6	Total operating cost	285,366	76.54	237.8

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	41,887 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

372.7

Total Operating Cost

382.7

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Dry Freight

Annual distance -- 40000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	2534 tonnes	2534 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 15510	\$ 15510
Wage burden	\$ 10230	\$ 10230

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
25,740	20.71	64.4	Tractor variable costs	25,740	20.71	64.4
8,718	7.01	21.8	Driver	8,718	7.01	21.8
5,401	4.35	13.5	Fuel	6,482	5.22	16.2
149	0.12	0.4	Repairs	149	0.12	0.4
			Cleaning			
			Transport			
1,591	1.28	4.0	Tires	2,275	1.83	5.7
41,599	33.47	104.1	Total tractor variable	43,364	34.29	108.5
			Tractor fixed costs			
7,580	6.10	19.0	Depreciation	7,580	6.10	19.0
822	0.66	2.1	Licences	822	0.66	2.1
8,402	6.76	21.1	Total tractor fixed	8,402	6.76	21.1
50,001	40.23	125.2	Tractor total	51,766	41.65	129.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
50,001	40.23	125.2	Total vehicle costs	51,766	41.65	129.6
2,867	2.31	7.2	Insurance costs	2,940	2.37	7.4
13,380	10.77	33.5	Admin. and interest	13,718	11.04	34.3
19,765	15.90	49.4	Pickup and delivery	19,765	15.90	49.4
9,557	7.69	23.9	Profit	9,799	7.88	24.5
95,570	76.90	239.2	Total operating cost	97,988	78.84	245.2

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

384.9 Total Operating Cost 394.6

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	5068 tonnes	5068 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 31020	\$ 31020
Wage burden	\$ 20460	\$ 20460

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,480	20.71	64.4	Tractor variable costs	51,480	20.71	64.4
17,436	7.01	21.8	Driver	17,436	7.01	21.8
10,803	4.35	13.5	Fuel	12,963	5.22	16.2
299	0.12	0.4	Repairs	299	0.12	0.4
			Cleaning			
			Transport			
3,182	1.28	4.0	Tires	4,550	1.83	5.7
83,200	33.47	104.1	Total tractor variable	86,728	34.89	108.5
			Tractor fixed costs			
7,580	3.05	9.5	Depreciation	7,580	3.05	9.5
822	0.33	1.0	Licences	822	0.33	1.0
8,402	3.38	10.5	Total tractor fixed	8,402	3.38	10.5
91,602	36.85	114.6	Tractor total	95,130	38.27	119.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
91,602	36.85	114.6	Total vehicle costs	95,130	38.27	119.0
5,389	2.17	6.7	Insurance costs	5,534	2.23	6.9
25,149	10.12	31.4	Admin. and interest	25,825	10.39	32.3
39,530	15.90	49.4	Pickup and delivery	39,530	15.90	49.4
17,963	7.23	22.5	Profit	18,447	7.42	23.1
179,633	72.27	224.6	Total operating cost	184,466	74.21	230.7

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

361.4 Total Operating Cost 371.3

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	7602 tonnes	7602 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 46530	\$ 46530
Wage burden	\$ 30689	\$ 30689

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
77,219	20.71	64.3	Tractor variable costs	77,219	20.71	64.3
26,154	7.01	21.8	Driver	26,154	7.01	21.8
16,204	4.35	13.5	Fuel	19,445	5.22	16.2
448	0.12	0.4	Repairs	448	0.12	0.4
			Cleaning			
			Transport			
4,773	1.28	4.0	Tires	6,825	1.83	5.7
124,798	33.47	104.0	Total tractor variable	130,091	34.89	108.4
			Tractor fixed costs			
7,580	2.03	6.3	Depreciation	7,580	2.03	6.3
822	0.22	0.7	Licences	822	0.22	0.7
8,402	2.25	7.0	Total tractor fixed	8,402	2.25	7.0
133,200	35.72	111.0	Tractor total	138,493	37.14	115.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
133,200	35.72	111.0	Total vehicle costs	138,493	37.14	115.4
7,911	2.12	6.6	Insurance costs	8,128	2.18	6.8
36,917	9.90	30.8	Admin. and interest	37,932	10.17	31.6
59,296	15.90	49.4	Pickup and delivery	59,296	15.90	49.4
26,369	7.07	22.0	Profit	27,094	7.27	22.6
263,693	70.71	219.8	Total operating cost	270,943	72.66	225.8

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

353.7 Total Operating Cost 363.4

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13608	\$ 13608
Wage burden	\$ 5744	\$ 5744

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
19,352	15.57	48.4	Tractor variable costs	19,352	15.57	48.4
7,117	5.73	17.8	Driver	7,117	5.73	17.8
6,151	4.95	15.4	Fuel	7,381	5.94	18.5
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
34,348	27.64	85.9	Total tractor variable	36,245	29.16	90.6
			Tractor fixed costs			
7,768	6.25	19.4	Depreciation	7,768	6.25	19.4
482	0.39	1.2	Licences	482	0.39	1.2
8,250	6.64	20.6	Total tractor fixed	8,250	6.64	20.6
42,598	34.28	106.5	Tractor total	44,495	35.80	111.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
42,598	34.28	106.5	Total vehicle costs	44,495	35.80	111.2
2,300	1.85	5.8	Insurance costs	2,378	1.91	5.9
10,732	8.64	26.8	Admin. and interest	11,095	8.93	27.7
13,359	10.75	33.4	Pickup and delivery	13,359	10.75	33.4
7,665	6.17	19.2	Profit	7,925	6.38	19.8
76,654	61.69	191.7	Total operating cost	79,252	63.77	198.0

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,758 lbs.
Estimated annual quantity --	2,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

308.5

Total Operating Cost 318.6

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 80000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	3904 tonnes	3904 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 27217	\$ 27217
Wage burden	\$ 11488	\$ 11488

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
38,785	15.57	48.4	Tractor variable costs	38,785	15.57	48.4
14,235	5.73	17.8	Driver	14,235	5.73	17.8
12,301	4.95	15.4	Fuel	14,761	5.94	18.5
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
68,698	27.64	85.9	Total tractor variable	72,490	29.16	90.6
			Tractor fixed costs			
7,768	3.13	9.7	Depreciation	7,768	3.13	9.7
482	0.19	0.6	Licences	482	0.19	0.6
8,250	3.32	10.3	Total tractor fixed	8,250	3.32	10.3
76,948	30.96	96.2	Tractor total	80,740	32.48	100.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
76,948	30.96	96.2	Total vehicle costs	80,740	32.48	100.9
4,260	1.71	5.3	Insurance costs	4,416	1.78	5.5
19,881	8.00	24.9	Admin. and interest	20,608	8.29	25.8
26,718	10.75	33.4	Pickup and delivery	26,718	10.75	33.4
14,201	5.71	17.8	Profit	14,720	5.92	18.4
142,008	57.13	177.6	Total operating cost	147,202	59.22	184.0

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,758 lbs.
Estimated annual quantity --	4,303 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

285.8 Total Operating Cost 296.1

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	5856 tonnes	5856 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 40825	\$ 40825
Wage burden	\$ 17232	\$ 17232

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
58,057	15.57	48.4	Tractor variable costs	58,057	15.57	48.4
21,352	5.73	17.8	Driver	21,352	5.73	17.8
18,452	4.95	15.4	Fuel	22,142	5.94	18.5
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
4,648	1.25	3.9	Transport	6,647	1.78	5.5
103,046	27.64	85.9	Tires	108,735	29.16	90.6
			Total tractor variable			
			Tractor fixed costs			
7,768	2.08	6.5	Depreciation	7,768	2.08	6.5
482	0.13	0.4	Licences	482	0.13	0.4
8,250	2.21	6.9	Total tractor fixed	8,250	2.21	6.9
			Tractor total	116,985	31.37	97.5
111,296	29.85	92.8	Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
111,296	29.85	92.8	Total vehicle costs	116,985	31.37	97.5
6,221	1.67	5.2	Insurance costs	6,455	1.73	5.4
29,030	7.79	24.2	Admin. and interest	30,121	8.08	25.1
40,077	10.75	33.4	Pickup and delivery	40,077	10.75	33.4
20,736	5.56	17.3	Profit	21,515	5.77	17.9
207,360	55.62	172.9	Total operating cost	215,153	57.70	179.3

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 74,568 mi. *
 * Gross vehicle weight -- 31,967 lbs. *
 * Average payload -- 10,758 lbs. *
 * Estimated annual quantity -- 6,455 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * P a v e d r o a d s G r a v e l r o a d s *
 *
 * 278.2 Total Operating Cost 288.5 *

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13608	\$ 13608
Wage burden	\$ 5744	\$ 5744

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
19,352	15.57	48.4	Tractor variable costs	19,352	15.57	48.4
7,117	5.73	17.8	Driver	7,117	5.73	17.8
6,151	4.95	15.4	Fuel	7,381	5.94	18.5
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
34,348	27.64	85.9	Total tractor variable	36,245	29.16	90.6
			Tractor fixed costs			
7,698	6.19	19.2	Depreciation	7,698	6.19	19.2
481	0.39	1.2	Licences	481	0.39	1.2
8,179	6.58	20.4	Total tractor fixed	8,179	6.58	20.4
42,527	34.22	106.3	Tractor total	44,424	35.74	111.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
42,527	34.22	106.3	Total vehicle costs	44,424	35.74	111.0
2,297	1.85	5.7	Insurance costs	2,375	1.91	5.9
10,716	8.62	26.8	Admin. and interest	11,082	8.92	27.7
13,359	10.75	33.4	Pickup and delivery	13,359	10.75	33.4
7,656	6.16	19.1	Profit	7,915	6.37	19.8
76,557	61.60	191.3	Total operating cost	79,155	63.69	197.8

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
 Gross vehicle weight -- 31,967 lbs.
 Average payload -- 10,758 lbs.
 Estimated annual quantity -- 2,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
307.9	318.3
Total Operating Cost	

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	3904 tonnes	3904 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 27217	\$ 27217
Wage burden	\$ 11488	\$ 11488

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
38,705	15.57	48.4	Tractor variable costs	38,705	15.57	48.4
14,235	5.73	17.8	Driver	14,235	5.73	17.8
12,301	4.95	15.4	Fuel	14,761	5.94	18.5
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
68,698	27.64	85.9	Total tractor variable	72,490	29.16	90.6
			Tractor fixed costs			
7,698	3.10	9.6	Depreciation	7,698	3.10	9.6
481	0.19	0.6	Licences	481	0.19	0.6
8,179	3.29	10.2	Total tractor fixed	8,179	3.29	10.2
76,877	30.93	96.1	Tractor total	80,669	32.45	100.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
76,877	30.93	96.1	Total vehicle costs	80,669	32.45	100.8
4,257	1.71	5.3	Insurance costs	4,413	1.78	5.5
19,867	7.99	24.8	Admin. and interest	20,595	8.29	25.7
26,718	10.75	33.4	Pickup and delivery	26,718	10.75	33.4
14,191	5.71	17.7	Profit	14,711	5.92	18.4
141,910	57.09	177.3	Total operating cost	147,106	59.19	183.8

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,758 lbs.
Estimated annual quantity --	4,303 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

285.3

Total Operating Cost

295.8

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14500 kg.	14500 kg.
	Average Payload	4880 kg.	4880 kg.
	Estimated Annual Quantity	5856 tonnes	5856 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 40825	\$ 40825
	Wage burden	\$ 17232	\$ 17232

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
58,057	15.57	48.4	Driver	58,057	15.57	48.4
21,352	5.73	17.8	Fuel	21,352	5.73	17.8
18,452	4.95	15.4	Repairs	22,142	5.94	18.5
537	0.14	0.4	Cleaning	537	0.14	0.4
			Transport			
4,648	1.25	3.9	Tires	6,647	1.78	5.5
103,046	27.64	85.9	Total tractor variable	108,735	29.16	90.6
			Tractor fixed costs			
7,698	2.06	6.4	Depreciation	7,698	2.06	6.4
481	0.13	0.4	Licences	481	0.13	0.4
8,179	2.19	6.8	Total tractor fixed	8,179	2.19	6.8
			Tractor total	116,914	31.35	97.4
111,225	29.83	92.7	Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
111,225	29.83	92.7	Total vehicle costs	116,914	31.35	97.4
6,216	1.67	5.2	Insurance costs	6,452	1.73	5.4
29,017	7.78	24.2	Admin. and interest	30,108	8.08	25.1
40,077	10.75	33.4	Pickup and delivery	40,077	10.75	33.4
20,726	5.56	17.3	Profit	21,506	5.77	17.9
207,263	55.59	172.8	Total operating cost	215,057	57.68	179.2

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	10,758 lbs.
	Estimated annual quantity --	6,455 tons
B.	Total Operating Cost per mile (cents/mile)	
	Paved roads	Gravel roads
	278.1	288.4
	Total Operating Cost	

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 11185	\$ 11185
Wage burden	\$ 4721	\$ 4721

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
15,906	12.80	39.8	Tractor variable costs	15,906	12.80	39.8
6,697	5.39	16.7	Driver	6,697	5.39	16.7
6,151	4.95	15.4	Fuel	7,381	5.94	18.5
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
30,482	24.53	76.2	Total tractor variable	32,379	26.05	80.9
			Tractor fixed costs			
7,698	6.19	19.2	Depreciation	7,698	6.19	19.2
395	0.32	1.0	Licences	395	0.32	1.0
8,093	6.51	20.2	Total tractor fixed	8,093	6.51	20.2
38,575	31.04	96.4	Tractor total	40,472	32.56	101.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
38,575	31.04	96.4	Total vehicle costs	40,472	32.56	101.1
2,037	1.64	5.1	Insurance costs	2,114	1.70	5.3
9,504	7.65	23.8	Admin. and interest	9,867	7.94	24.7
10,980	8.84	27.5	Pickup and delivery	10,980	8.84	27.5
6,788	5.46	17.0	Profit	7,048	5.67	17.6
67,884	54.63	169.8	Total operating cost	70,481	56.71	176.2

I m p e r i a l E q u i v a l e n t S u m m a r y

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	10,758 lbs.
	Estimated annual quantity --	2,152 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

273.3 Total Operating Cost 283.6

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
14500 kg.	14500 kg.
4880 kg.	4880 kg.
3904 tonnes	3904 tonnes
3.1 hrs.	3.1 hrs.
2486 hrs.	2486 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 0	\$ 0
\$ 0	\$ 0
\$ 22370	\$ 22370
\$ 9442	\$ 9442

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,812	12.80	39.8	Tractor variable costs	31,812	12.80	39.8
13,394	5.39	16.7	Driver	13,394	5.39	16.7
12,301	4.95	15.4	Fuel	14,761	5.94	18.5
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
60,964	24.53	76.2	Total tractor variable	64,756	26.05	80.9
			Tractor fixed costs			
7,698	3.10	9.6	Depreciation	7,698	3.10	9.6
395	0.16	0.5	Licences	395	0.16	0.5
8,093	3.26	10.1	Total tractor fixed	8,093	3.26	10.1
69,057	27.79	86.3	Tractor total	72,849	29.31	91.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
69,057	27.79	86.3	Total vehicle costs	72,849	29.31	91.0
3,740	1.50	4.7	Insurance costs	3,896	1.57	4.9
17,455	7.02	21.8	Admin. and interest	18,183	7.32	22.7
21,960	8.84	27.5	Pickup and delivery	21,960	8.84	27.5
12,468	5.02	15.6	Profit	12,988	5.23	16.2
124,680	50.17	155.9	Total operating cost	129,876	52.27	162.3

 Imperial Equivalent Summary

 A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 31,967 lbs.
 Average payload -- 10,758 lbs.
 Estimated annual quantity -- 4,303 tons

 B. Total Operating Cost per mile (cents/mile)

 Paved roads Gravel roads

 250.9 Total Operating Cost 261.2

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	5856 tonnes	5856 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 33555	\$ 33555
Wage burden	\$ 14163	\$ 14163

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
47,718	12.80	39.8	Tractor variable costs			
20,092	5.39	16.7	Driver	47,718	12.80	39.8
18,452	4.95	15.4	Fuel	20,092	5.39	16.7
537	0.14	0.4	Repairs	22,142	5.94	18.5
			Cleaning	537	0.14	0.4
			Transport			
4,648	1.25	3.9	Tires	6,647	1.78	5.5
91,447	24.53	76.2	Total tractor variable	97,136	26.05	80.9
			Tractor fixed costs			
7,698	2.06	6.4	Depreciation	7,698	2.06	6.4
395	0.11	0.3	Licences	395	0.11	0.3
8,093	2.17	6.7	Total tractor fixed	8,093	2.17	6.7
99,540	26.70	82.9	Tractor total	105,229	28.22	87.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
99,540	26.70	82.9	Total vehicle costs	105,229	28.22	87.6
5,444	1.46	4.5	Insurance costs	5,678	1.52	4.7
25,407	6.81	21.2	Admin. and interest	26,498	7.11	22.1
32,940	8.84	27.5	Pickup and delivery	32,940	8.84	27.5
18,148	4.87	15.1	Profit	18,927	5.08	15.8
181,479	48.68	151.2	Total operating cost	189,272	50.77	157.7

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,758 lbs.
Estimated annual quantity --	6,455 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

243.3 Total Operating Cost 253.8

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.	14969 kg.
	Average Payload	5335 kg.	5335 kg.
	Estimated Annual Quantity	2134 tonnes	2134 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 11931	\$ 11931
	Wage burden	\$ 5268	\$ 5268

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
17,199	13.84	43.0	Driver	17,199	13.84	43.0
7,508	6.04	18.8	Fuel	7,508	6.04	18.8
6,061	4.88	15.2	Repairs	7,273	5.85	18.2
179	0.14	0.4	Cleaning	179	0.14	0.4
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
32,496	26.15	81.3	Total tractor variable	34,375	27.65	85.9
			Tractor fixed costs			
7,838	6.31	19.6	Depreciation	7,838	6.31	19.6
440	0.35	1.1	Licences	440	0.35	1.1
8,278	6.66	20.7	Total tractor fixed	8,278	6.66	20.7
40,774	32.81	102.0	Tractor total	42,653	34.31	106.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
40,774	32.81	102.0	Total vehicle costs	42,653	34.31	106.6
2,262	1.77	5.5	Insurance costs	2,279	1.83	5.7
10,275	8.27	25.7	Admin. and interest	10,636	8.56	26.6
12,804	10.30	32.0	Pickup and delivery	12,804	10.30	32.0
7,340	5.91	18.4	Profit	7,597	6.11	19.0
73,395	59.06	183.6	Total operating cost	75,969	61.11	189.9

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	33,001 lbs.
	Average payload --	11,762 lbs.
	Estimated annual quantity --	2,352 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

295.5

Total Operating Cost

305.6

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14969 kg.	14969 kg.
Average Payload	5335 kg.	5335 kg.
Estimated Annual Quantity	4268 tonnes	4268 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 23861	\$ 23861
Wage burden	\$ 10537	\$ 10537

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
34,398	13.84	43.0	Tractor variable costs	34,398	13.84	43.0
15,017	6.04	18.8	Driver	15,017	6.04	18.8
12,122	4.88	15.2	Fuel	14,546	5.85	18.2
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
64,994	26.15	81.3	Total tractor variable	68,750	27.65	85.9
			Tractor fixed costs			
7,838	3.15	9.8	Depreciation	7,838	3.15	9.8
440	0.18	0.6	Licences	440	0.18	0.6
8,278	3.33	10.4	Total tractor fixed	8,278	3.33	10.4
73,272	29.48	91.7	Tractor total	77,028	30.98	96.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
73,272	29.48	91.7	Total vehicle costs	77,028	30.98	96.3
4,064	1.64	5.1	Insurance costs	4,218	1.70	5.3
18,963	7.63	23.7	Admin. and interest	19,684	7.92	24.6
25,608	10.30	32.0	Pickup and delivery	25,608	10.30	32.0
13,545	5.45	16.9	Profit	14,060	5.66	17.6
135,452	54.50	169.4	Total operating cost	140,598	56.56	175.0

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	33,001 lbs.
Average payload --	11,762 lbs.
Estimated annual quantity --	4,705 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

272.6

Total Operating Cost 282.9

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.	14969 kg.
	Average Payload	5335 kg.	5335 kg.
	Estimated Annual Quantity	6402 tonnes	6402 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 35792	\$ 35792
	Wage burden	\$ 15805	\$ 15805

C. Total Operating Costs

Paved Roads Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,597	13.84	43.0	Tractor variable costs	51,597	13.84	43.0
22,525	6.04	18.8	Driver	22,525	6.04	18.8
18,183	4.88	15.2	Fuel	21,828	5.85	18.2
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
4,648	1.25	3.9	Tires	6,647	1.78	5.5
97,498	26.15	81.3	Total tractor variable	103,126	27.65	85.9
			Tractor fixed costs			
7,838	2.10	6.5	Depreciation	7,838	2.10	6.5
448	0.12	0.4	Licences	448	0.12	0.4
8,278	2.22	6.9	Total tractor fixed	8,278	2.22	6.9
105,768	28.37	88.2	Tractor total	111,404	29.87	92.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
105,768	28.37	88.2	Total vehicle costs	111,404	29.87	92.8
5,925	1.59	4.9	Insurance costs	6,157	1.65	5.1
27,651	7.42	23.0	Admin. and interest	28,732	7.71	23.9
38,412	10.30	32.0	Pickup and delivery	38,412	10.30	32.0
19,733	5.30	16.5	Profit	20,523	5.50	17.1
197,507	52.98	164.6	Total operating cost	205,228	55.03	170.9

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	33,001 lbs.
	Average payload --	11,762 lbs.
	Estimated annual quantity --	7,057 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

264.9 Total Operating Cost 275.0

Configuration -- 2 axle straight truck (gasoline)

N.W.T.

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5435 kg.	5435 kg.
Estimated Annual Quantity	2174 tonnes	2174 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 18580	\$ 18580
Wage burden	\$ 9918	\$ 9918

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
28,498	22.93	71.2	Tractor variable costs	28,498	22.93	71.2
7,456	6.00	18.6	Driver	7,456	6.00	18.6
5,863	4.72	14.7	Fuel	7,035	5.66	17.6
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,883	1.52	4.7	Tires	2,693	2.17	6.7
43,879	35.31	109.6	Total tractor variable	45,861	36.90	114.5
			Tractor fixed costs			
6,998	5.63	17.5	Depreciation	6,998	5.63	17.5
320	0.26	0.8	Licences	320	0.26	0.8
7,318	5.89	18.3	Total tractor fixed	7,318	5.89	18.3
51,197	41.20	127.9	Tractor total	53,179	42.79	132.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
51,197	41.20	127.9	Total vehicle costs	53,179	42.79	132.8
3,039	2.36	7.3	Insurance costs	3,020	2.43	7.6
13,714	11.03	34.3	Admin. and interest	14,094	11.34	35.2
20,313	16.34	50.8	Pickup and delivery	20,313	16.34	50.8
6,708	7.00	24.5	Profit	10,067	8.10	25.2
67,959	78.01	244.8	Total operating cost	100,673	81.00	251.6

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	11,982 lbs.
Estimated annual quantity --	2,396 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

394.0 Total Operating Cost 404.9

Configuration -- 2 axle straight truck (gasoline)

N.W.T.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15000 kg.	15000 kg.
	Average Payload	5435 kg.	5435 kg.
	Estimated Annual Quantity	4348 tonnes	4348 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 37159	\$ 37159
	Wage burden	\$ 19835	\$ 19835

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
56,994	22.93	71.2	Tractor variable costs	56,994	22.93	71.2
14,911	6.00	18.6	Driver	14,911	6.00	18.6
11,726	4.72	14.7	Fuel	14,071	5.66	17.6
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,766	1.52	4.7	Tires	5,385	2.17	6.7
87,755	35.31	109.6	Total tractor variable	91,719	36.90	114.5
			Tractor fixed costs			
6,998	2.82	8.7	Depreciation	6,998	2.82	8.7
320	0.13	0.4	Licences	320	0.13	0.4
7,318	2.95	9.1	Total tractor fixed	7,318	2.95	9.1
95,073	38.26	118.7	Tractor total	99,037	39.85	123.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
95,073	38.26	118.7	Total vehicle costs	99,037	39.85	123.6
5,577	2.24	7.0	Insurance costs	5,740	2.31	7.2
26,025	10.47	32.5	Admin. and interest	26,785	10.78	33.5
40,627	16.35	50.8	Pickup and delivery	40,627	16.35	50.8
18,589	7.48	23.2	Profit	19,132	7.70	23.9
185,891	74.80	232.2	Total operating cost	191,321	76.99	239.0

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 33,069 lbs.
 Average payload -- 11,982 lbs.
 Estimated annual quantity -- 4,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

373.7 Total Operating Cost 384.6

Configuration -- 2 axle straight truck (gasoline)

N.W.T.

Commodity -- Dr/ Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5435 kg.	5435 kg.
Estimated Annual Quantity	6522 tonnes	6522 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 55739	\$ 55739
Wage burden	\$ 29753	\$ 29753

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
85,492	22.93	71.2	Tractor variable costs	85,492	22.93	71.2
22,367	6.00	18.6	Driver	22,367	6.00	18.6
17,589	4.72	14.7	Fuel	21,106	5.66	17.6
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
5,649	1.52	4.7	Tires	8,078	2.17	6.7
131,634	35.31	109.6	Total tractor variable	137,580	36.90	114.5
			Tractor fixed costs			
6,998	1.88	5.8	Depreciation	6,998	1.88	5.8
320	0.09	0.3	Licences	320	0.09	0.3
7,318	1.97	6.1	Total tractor fixed	7,318	1.97	6.1
138,952	37.28	115.7	Tractor total	144,898	38.87	120.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
138,952	37.28	115.7	Total vehicle costs	144,898	38.87	120.6
8,215	2.20	6.8	Insurance costs	8,459	2.27	7.0
38,335	10.28	31.9	Admin. and interest	39,476	10.59	32.9
60,940	16.35	50.8	Pickup and delivery	60,940	16.35	50.8
27,382	7.34	22.8	Profit	28,197	7.56	23.5
273,824	73.45	228.0	Total operating cost	281,970	75.64	234.8

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	11,982 lbs.
Estimated annual quantity --	7,189 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

366.9 Total Operating Cost 377.9

Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Dry Freight

Annual distance -- 40000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	2360 tonnes	2360 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

E. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 21115	\$ 21115
Wage burden	\$ 10389	\$ 10389

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,504	25.35	78.8	Tractor variable costs	31,504	25.35	78.8
7,323	5.89	18.3	Driver	7,323	5.89	18.3
6,189	4.98	15.5	Fuel	7,426	5.98	18.6
209	0.17	0.5	Repairs	209	0.17	0.5
			Cleaning			
			Transport			
1,883	1.52	4.7	Tires	2,693	2.17	6.7
47,106	37.91	117.8	Total tractor variable	49,155	39.56	122.9
			Tractor fixed costs			
6,998	5.63	17.5	Depreciation	6,998	5.63	17.5
400	0.32	1.0	Licences	0,400	0.32	1.0
7,398	5.95	18.5	Total tractor fixed	7,398	5.95	18.5
54,506	43.86	136.3	Tractor total	56,553	45.51	141.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
54,506	43.86	136.3	Total vehicle costs	56,553	45.51	141.4
3,270	2.63	8.2	Insurance costs	3,354	2.70	8.4
15,259	12.28	38.1	Admin. and interest	15,652	12.59	39.1
25,060	20.16	62.7	Pickup and delivery	25,060	20.16	62.7
10,899	8.77	27.2	Profit	11,180	9.00	28.0
108,994	87.70	272.5	Total operating cost	111,799	89.96	279.6

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	2,601 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
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438.5	Total Operating Cost 450.0
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Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	4720 tonnes	4720 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 42230	\$ 42230
Wage burden	\$ 20779	\$ 20779

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
63,009	25.35	78.8	Driver	63,009	25.35	78.8
14,645	5.89	18.3	Fuel	14,645	5.89	18.3
12,377	4.98	15.5	Repairs	14,853	5.98	18.6
418	0.17	0.5	Cleaning	418	0.17	0.5
			Transport			
3,766	1.52	4.7	Tires	5,385	2.17	6.7
94,215	37.91	117.8	Total tractor variable	98,310	39.56	122.9
			Tractor fixed costs			
6,998	2.82	8.7	Depreciation	6,998	2.82	8.7
400	0.16	0.5	Licences	400	0.16	0.5
7,398	2.98	9.2	Total tractor fixed	7,398	2.98	9.2
101,613	40.89	127.0	Tractor total	105,708	42.54	132.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
101,613	40.89	127.0	Total vehicle costs	105,708	42.54	132.1
6,236	2.51	7.8	Insurance costs	6,404	2.58	8.0
29,100	11.71	36.4	Admin. and interest	29,885	12.02	37.4
50,121	20.16	62.7	Pickup and delivery	50,121	20.16	62.7
20,786	8.36	26.0	Profit	21,346	8.59	26.7
207,856	83.63	259.9	Total operating cost	213,464	85.89	266.9

* Imperial Equivalent Summary *

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	5,203 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s	G r a v e l r o a d s
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418.3	Total Operating Cost	429.5
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Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
		15000 kg.	15000 kg.
	Gross Vehicle Weight	5900 kg.	5900 kg.
	Average Payload	7080 tonnes	7080 tonnes
	Estimated Annual Quantity	3.1 hrs.	3.1 hrs.
	Trip Running Time	3728 hrs.	3728 hrs.
	Annual Running Hours		
B.	Driver Costs	\$ 0	\$ 0
		\$ 0	\$ 0
	Load - unload time cost	\$ 63344	\$ 63344
	Distance wage	\$ 31168	\$ 31168
	Hourly wage		
	Wage burden		

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
94,512	25.35	78.8	94,512	25.35	78.8
21,968	5.89	18.3	21,968	5.89	18.3
18,566	4.98	15.5	22,279	5.98	18.6
627	0.17	0.5	627	0.17	0.5
5,649	1.52	4.7	8,078	2.17	6.7
141,322	37.91	117.8	147,464	39.56	122.9
Tractor fixed costs					
6,998	1.88	5.8	6,998	1.88	5.8
400	0.11	0.3	400	0.11	0.3
7,398	1.99	6.1	7,398	1.99	6.1
148,720	39.90	123.9	154,862	41.55	129.0
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
148,720	39.90	123.9	154,862	41.55	129.0
Total vehicle costs					
9,201	2.47	7.7	9,454	2.54	7.9
42,940	11.52	35.8	44,118	11.83	36.8
75,181	20.16	62.7	75,181	20.16	62.7
30,671	8.23	25.6	31,513	8.45	26.3
306,713	82.28	255.7	315,128	84.53	262.7
Total operating cost					

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	33,069 lbs.
	Average payload --	13,007 lbs.
	Estimated annual quantity --	7,804 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
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411.5 Total Operating Cost 422.8

2 AXLE TRUCK

DIESEL

DRY FREIGHT



Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	2360 tonnes	2360 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 20643	\$ 20643
Wage burden	\$ 11015	\$ 11015

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,658	25.47	79.1	Tractor variable costs	31,658	25.47	79.1
4,651	3.74	11.6	Driver	4,651	3.74	11.6
6,124	4.93	15.3	Fuel	7,349	5.91	18.4
104	0.08	0.3	Repairs	104	0.08	0.3
			Cleaning			
			Transport			
1,683	1.35	4.2	Tires	2,406	1.94	6.0
44,220	35.57	110.5	Total tractor variable	46,168	37.14	115.4
			Tractor fixed costs			
8,264	6.65	20.7	Depreciation	8,264	6.65	20.7
426	0.34	1.1	Licences	426	0.34	1.1
8,690	6.99	21.8	Total tractor fixed	8,690	6.99	21.8
52,910	42.56	132.3	Tractor total	54,858	44.13	137.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
52,910	42.56	132.3	Total vehicle costs	54,858	44.13	137.2
3,181	2.56	8.0	Insurance costs	3,261	2.62	8.2
14,846	11.95	37.1	Admin. and interest	15,219	12.25	38.0
24,500	19.71	61.3	Pickup and delivery	24,500	19.71	61.3
10,604	8.53	26.5	Profit	10,871	8.75	27.2
106,041	85.31	265.2	Total operating cost	108,709	87.46	271.9

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.

Gross vehicle weight -- 32,187 lbs.

Average payload -- 13,007 lbs.

Estimated annual quantity -- 2,601 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads 426.8

Gravel roads 437.6

Total Operating Cost 437.6

Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	4720 tonnes	4720 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 41285	\$ 41285
Wage burden	\$ 22029	\$ 22029

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
63,314	25.47	79.1	Tractor variable costs	63,314	25.47	79.1
9,302	3.74	11.6	Driver	9,302	3.74	11.6
12,248	4.93	15.3	Fuel	14,698	5.91	18.4
208	0.08	0.3	Repairs	208	0.08	0.3
			Cleaning			
			Transport			
3,366	1.35	4.2	Tires	4,813	1.94	6.0
88,438	35.57	110.5	Total tractor variable	92,335	37.14	115.4
			Tractor fixed costs			
8,264	3.32	10.3	Depreciation	8,264	3.32	10.3
426	0.17	0.5	Licences	426	0.17	0.5
8,690	3.49	10.8	Total tractor fixed	8,690	3.49	10.8
97,128	39.06	121.3	Tractor total	101,025	40.63	126.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
97,128	39.06	121.3	Total vehicle costs	101,025	40.63	126.2
6,005	2.42	7.5	Insurance costs	6,165	2.48	7.7
28,024	11.27	35.0	Admin. and interest	28,772	11.58	36.0
49,000	19.71	61.3	Pickup and delivery	49,000	19.71	61.3
20,017	8.05	25.0	Profit	20,551	8.27	25.7
200,174	80.51	250.1	Total operating cost	205,513	82.67	256.9

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	5,203 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

402.5

Total Operating Cost 413.4

Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14600 kg.	14600 kg.
	Average Payload	5900 kg.	5900 kg.
	Estimated Annual Quantity	7080 tonnes	7080 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 61928	\$ 61928
	Wage burden	\$ 33044	\$ 33044

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
			Tractor variable costs			
94,972	25.47	79.1	Driver	94,972	25.47	79.1
13,952	3.74	11.6	Fuel	13,952	3.74	11.6
18,373	4.93	15.3	Repairs	22,047	5.91	18.4
312	0.08	0.3	Cleaning	312	0.08	0.3
			Transport			
5,048	1.35	4.2	Tires	7,219	1.94	6.0
132,657	35.57	110.5	Total tractor variable	138,502	37.14	115.4
			Tractor fixed costs			
8,264	2.22	6.9	Depreciation	8,264	2.22	6.9
426	0.11	0.4	Licences	426	0.11	0.4
8,690	2.33	7.3	Total tractor fixed	8,690	2.33	7.3
141,347	37.90	117.8	Tractor total	147,192	39.47	122.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
141,347	37.90	117.8	Total vehicle costs	147,192	39.47	122.7
8,829	2.37	7.4	Insurance costs	9,070	2.43	7.6
41,203	11.05	34.3	Admin. and interest	42,324	11.35	35.3
73,499	19.71	61.2	Pickup and delivery	73,499	19.71	61.2
29,431	7.89	24.5	Profit	30,232	8.11	25.2
294,309	78.92	245.2	Total operating cost	302,317	81.07	252.0

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	32,187 lbs.
	Average payload --	13,007 lbs.
	Estimated annual quantity --	7,804 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

394.6 Total Operating Cost 405.5

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	16400 kg.	16400 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	2534 tonnes	2534 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 18642	\$ 18642
	Wage burden	\$ 10981	\$ 10981

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
29,623	23.84	74.1	Tractor variable costs	29,623	23.84	74.1
3,777	3.04	9.4	Driver	3,777	3.04	9.4
4,994	4.02	12.5	Fuel	5,993	4.82	15.0
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,627	1.31	4.1	Tires	2,326	1.87	5.8
40,200	32.35	100.5	Total tractor variable	41,898	33.71	104.7
			Tractor fixed costs			
7,796	6.27	19.5	Depreciation	7,796	6.27	19.5
458	0.37	1.1	Licences	458	0.37	1.1
8,254	6.64	20.6	Total tractor fixed	8,254	6.64	20.6
48,454	38.99	121.1	Tractor total	50,152	40.35	125.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
48,454	38.99	121.1	Total vehicle costs	50,152	40.35	125.3
2,966	2.39	7.4	Insurance costs	3,037	2.44	7.6
13,849	11.14	34.6	Admin. and interest	14,174	11.41	35.4
23,756	19.12	59.4	Pickup and delivery	23,756	19.12	59.4
9,892	7.96	24.7	Profit	10,125	8.15	25.3
98,919	79.60	247.2	Total operating cost	101,244	81.47	253.0

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	36,155 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

397.8 Total Operating Cost 407.2

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	5068 tonnes	5068 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 37283	\$ 37283
Wage burden	\$ 21962	\$ 21962

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
59,245	23.84	74.1	Tractor variable costs	59,245	23.84	74.1
7,554	3.04	9.4	Driver	7,554	3.04	9.4
9,989	4.02	12.5	Fuel	11,986	4.82	15.0
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,254	1.31	4.1	Tires	4,653	1.87	5.8
80,400	32.35	100.5	Total tractor variable	83,796	33.71	104.7
			Tractor fixed costs			
7,796	3.14	9.7	Depreciation	7,796	3.14	9.7
458	0.18	0.6	Licences	458	0.18	0.6
8,254	3.32	10.3	Total tractor fixed	8,254	3.32	10.3
88,654	35.67	110.8	Tractor total	92,050	37.03	115.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
88,654	35.67	110.8	Total vehicle costs	92,050	37.03	115.0
5,596	2.25	7.0	Insurance costs	5,736	2.31	7.2
26,114	10.51	32.6	Admin. and interest	26,766	10.77	33.5
47,513	19.12	59.4	Pickup and delivery	47,513	19.12	59.4
18,653	7.50	23.3	Profit	19,118	7.69	23.9
186,530	75.05	233.1	Total operating cost	191,183	76.92	239.0

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

375.1

Total Operating Cost 384.6

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Dry Freight

Annual distance -- 120000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	7602 tonnes	7602 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3720 hrs.	3720 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 55925	\$ 55925
Wage burden	\$ 32943	\$ 32943

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
88,868	23.84	74.1	Tractor variable costs	88,868	23.84	74.1
11,331	3.04	9.4	Driver	11,331	3.04	9.4
14,983	4.02	12.5	Fuel	17,979	4.82	15.0
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
4,881	1.31	4.1	Tires	6,979	1.87	5.8
120,600	32.35	100.5	Total tractor variable	125,694	33.71	104.7
			Tractor fixed costs			
7,796	2.09	6.5	Depreciation	7,796	2.09	6.5
458	0.12	0.4	Licences	458	0.12	0.4
8,254	2.21	6.9	Total tractor fixed	8,254	2.21	6.9
128,854	34.56	107.4	Tractor total	133,948	35.92	111.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
128,854	34.56	107.4	Total vehicle costs	133,948	35.92	111.6
8,224	2.21	6.9	Insurance costs	8,434	2.26	7.0
38,380	10.29	32.0	Admin. and interest	39,357	10.56	32.8
71,269	19.12	59.4	Pickup and delivery	71,269	19.12	59.4
27,414	7.35	22.8	Profit	28,112	7.54	23.4
274,141	73.53	228.5	Total operating cost	281,120	75.40	234.2

Imperial Equivalent Summary

A. Annual distance travelled --	74,560 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

367.7 Total Operating Cost 376.9

Configuration -- 2 axle straight truck (diesel) Saskatchewan

Commodity -- Dry Freight Annual distance -- 40000 km.

A. Vehicle Utilisation	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5445 kg.	5445 kg.
Estimated Annual Quantity	2178 tonnes	2178 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 17113	\$ 17113
Wage burden	\$ 8857	\$ 8857

C. Total Operating Costs

Paved Roads				Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
25,970	20.90	64.9	Tractor variable costs	25,970	20.90	64.9
4,289	3.45	10.7	Driver	4,289	3.45	10.7
4,126	3.32	10.3	Fuel	4,951	3.98	12.4
187	0.15	0.5	Repairs	187	0.15	0.5
			Cleaning			
			Transport			
1,614	1.30	4.0	Tires	2,308	1.86	5.8
36,186	29.12	90.4	Total tractor variable	37,705	30.34	94.3
			Tractor fixed costs			
8,342	6.71	20.9	Depreciation	8,342	6.71	20.9
674	0.54	1.7	Licences	674	0.54	1.7
9,016	7.25	22.6	Total tractor fixed	9,016	7.25	22.6
45,202	36.37	113.0	Tractor total	46,721	37.59	116.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
45,202	36.37	113.0	Total vehicle costs	46,721	37.59	116.9
2,628	2.11	6.6	Insurance costs	2,690	2.16	6.7
12,263	9.87	30.7	Admin. and interest	12,555	10.10	31.4
18,744	15.08	46.9	Pickup and delivery	18,744	15.08	46.9
8,760	7.05	21.9	Profit	8,968	7.22	22.4
87,597	70.40	219.1	Total operating cost	89,678	72.15	224.3

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
 Gross vehicle weight -- 32,187 lbs.
 Average payload -- 12,004 lbs.
 Estimated annual quantity -- 2,401 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

352.6 Total Operating Cost 361.0

Configuration -- 2 axle straight truck (diesel)

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
14600 kg.	14600 kg.
5445 kg.	5445 kg.
4356 tonnes	4356 tonnes
3.1 hrs.	3.1 hrs.
2486 hrs.	2486 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 0	\$ 0
\$ 0	\$ 0
\$ 34226	\$ 34226
\$ 17714	\$ 17714

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,940	20.90	64.9	Tractor variable costs	51,940	20.90	64.9
8,577	3.45	10.7	Driver	8,577	3.45	10.7
8,251	3.32	10.3	Fuel	9,902	3.98	12.4
373	0.15	0.5	Repairs	373	0.15	0.5
			Cleaning			
			Transport			
3,228	1.30	4.0	Tires	4,616	1.86	5.8
72,369	29.12	90.4	Total tractor variable	75,408	30.34	94.3
			Tractor fixed costs			
8,342	3.36	10.4	Depreciation	8,342	3.36	10.4
674	0.27	0.8	Licences	674	0.27	0.8
9,016	3.63	11.2	Total tractor fixed	9,016	3.63	11.2
81,385	32.75	101.6	Tractor total	84,424	33.97	105.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
81,385	32.75	101.6	Total vehicle costs	84,424	33.97	105.5
4,885	1.97	6.1	Insurance costs	5,010	2.02	6.3
22,798	9.17	28.5	Admin. and interest	23,381	9.41	29.2
37,489	15.08	46.9	Pickup and delivery	37,489	15.08	46.9
16,284	6.55	20.4	Profit	16,700	6.72	20.9
162,841	65.52	203.5	Total operating cost	167,004	67.20	208.8

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 32,187 lbs.
 Average payload -- 12,004 lbs.
 Estimated annual quantity -- 4,802 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

327.5 Total Operating Cost 336.0

Configuration -- 2 axle straight truck (diesel)

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	5445 kg.	5445 kg.
Estimated Annual Quantity	6534 tonnes	6534 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 51339	\$ 51339
Wage burden	\$ 26570	\$ 26570

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
77,909	20.90	64.9	Tractor variable costs	77,909	20.90	64.9
12,866	3.45	10.7	Driver	12,866	3.45	10.7
12,377	3.32	10.3	Fuel	14,853	3.98	12.4
560	0.15	0.5	Repairs	560	0.15	0.5
			Cleaning			
			Transport			
4,842	1.30	4.0	Tires	6,924	1.86	5.8
108,554	29.12	90.4	Total tractor variable	113,112	30.34	94.3
			Tractor fixed costs			
8,342	2.24	7.0	Depreciation	8,342	2.24	7.0
674	0.18	0.6	Licences	674	0.18	0.6
9,016	2.42	7.6	Total tractor fixed	9,016	2.42	7.6
117,570	31.54	98.0	Tractor total	122,128	32.76	101.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
117,570	31.54	98.0	Total vehicle costs	122,128	32.76	101.9
7,143	1.92	6.0	Insurance costs	7,330	1.97	6.1
33,332	8.94	27.8	Admin. and interest	34,206	9.17	28.5
56,233	15.08	46.9	Pickup and delivery	56,233	15.08	46.9
23,809	6.39	19.8	Profit	24,433	6.55	20.4
238,087	63.87	198.5	Total operating cost	244,330	65.53	203.8

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	12,004 lbs.
Estimated annual quantity --	7,202 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

319.4 Total Operating Cost 328.0

Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road		Gravel Road	
Gross Vehicle Weight	15430	kg.	15430	kg.
Average Payload	6335	kg.	6335	kg.
Estimated Annual Quantity	2534	tonnes	2534	tonnes
Trip Running Time	3.1	hrs.	3.1	hrs.
Annual Running Hours	1243	hrs.	1243	hrs.

B. Driver Costs				
Load - unload time cost	\$ 0		\$ 0	
Distance wage	\$ 0		\$ 0	
Hourly wage	\$ 17113		\$ 17113	
Wage burden	\$ 10120		\$ 10120	

C. Total Operating Costs Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs						
27,233	21.91	68.1	Driver	27,233	21.91	68.1
4,571	3.68	11.4	Fuel	4,571	3.68	11.4
3,963	3.19	9.9	Repairs	4,755	3.83	11.9
143	0.12	0.4	Cleaning	143	0.12	0.4
			Transport			
1,379	1.11	3.4	Tires	1,972	1.59	4.9
37,289	30.01	93.2	Total tractor variable	38,674	31.13	96.7
Tractor fixed costs						
8,342	6.71	20.9	Depreciation	8,342	6.71	20.9
502	0.40	1.3	Licences	502	0.40	1.3
8,844	7.11	22.2	Total tractor fixed	8,844	7.11	22.2
46,133	37.12	115.4	Tractor total	47,518	38.24	118.9
Trailer variable costs						
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
Trailer fixed costs						
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
46,133	37.12	115.4	Total vehicle costs	47,518	38.24	118.9
2,792	2.25	7.0	Insurance costs	2,849	2.29	7.1
13,030	10.48	32.6	Admin. and interest	13,296	10.70	33.2
21,808	17.55	54.5	Pickup and delivery	21,808	17.55	54.5
9,307	7.49	23.3	Profit	9,497	7.64	23.7
93,070	74.89	232.8	Total operating cost	94,968	76.42	237.4

Imperial Equivalent Summary

A. Annual distance travelled --	24,856	mi.
Gross vehicle weight --	34,017	lbs.
Average payload --	13,966	lbs.
Estimated annual quantity --	2,793	tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
374.6	Total Operating Cost 382.0

Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	5068 tonnes	5068 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 34226	\$ 34226
	Wage burden	\$ 20239	\$ 20239

C. Total Operating Costs

P a v e d R o a d s				G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
54,465	21.91	68.1	Driver	54,465	21.91	68.1
9,142	3.68	11.4	Fuel	9,142	3.68	11.4
7,926	3.19	9.9	Repairs	9,511	3.83	11.9
287	0.12	0.4	Cleaning	287	0.12	0.4
			Transport			
2,758	1.11	3.4	Tires	3,943	1.59	4.9
74,578	30.01	93.2	Total tractor variable	77,348	31.13	96.7
			Tractor fixed costs			
8,342	3.36	10.4	Depreciation	8,342	3.36	10.4
502	0.20	0.6	Licences	502	0.20	0.6
8,844	3.56	11.0	Total tractor fixed	8,844	3.56	11.0
83,422	33.57	104.2	Tractor total	86,192	34.69	107.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
83,422	33.57	104.2	Total vehicle costs	86,192	34.69	107.7
5,221	2.10	6.5	Insurance costs	5,335	2.15	6.7
24,363	9.80	30.5	Admin. and interest	24,895	10.02	31.1
43,616	17.55	54.5	Pickup and delivery	43,616	17.55	54.5
17,402	7.00	21.8	Profit	17,782	7.15	22.2
174,024	70.02	217.5	Total operating cost	177,820	71.56	222.2

```

*****
* Imperial Equivalent Summary *
*
* A. Annual distance travelled -- 49,712 mi.
* Gross vehicle weight -- 34,017 lbs.
* Average payload -- 13,966 lbs.
* Estimated annual quantity -- 5,586 tons
*
* B. Total Operating Cost per mile (cents/mile)
*
* P a v e d r o a d s G r a v e l r o a d s
*
* 350.0 Total Operating Cost 357.6
*****

```


Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	7602 tonnes	7602 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 51339	\$ 51339
	Wage burden	\$ 30359	\$ 30359

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
81,698	21.91	68.1	Tractor variable costs	81,698	21.91	68.1
13,714	3.68	11.4	Driver	13,714	3.68	11.4
11,889	3.19	9.9	Fuel	14,266	3.83	11.9
430	0.12	0.4	Repairs	430	0.12	0.4
			Cleaning			
			Transport			
4,136	1.11	3.4	Tires	5,915	1.59	4.9
111,867	30.01	93.2	Total tractor variable	116,023	31.13	96.7
			Tractor fixed costs			
8,342	2.24	7.0	Depreciation	8,342	2.24	7.0
502	0.13	0.4	Licences	502	0.13	0.4
8,844	2.37	7.4	Total tractor fixed	8,844	2.37	7.4
120,711	32.38	100.6	Tractor total	124,867	33.50	104.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
120,711	32.38	100.6	Total vehicle costs	124,867	33.50	104.1
7,649	2.05	6.4	Insurance costs	7,820	2.10	6.5
35,697	9.57	29.7	Admin. and interest	36,494	9.79	30.4
65,425	17.55	54.5	Pickup and delivery	65,425	17.55	54.5
25,498	6.84	21.2	Profit	26,067	6.99	21.7
254,980	68.39	212.4	Total operating cost	260,673	69.93	217.2

 Imperial Equivalent Summary
 *
 * A. Annual distance travelled -- 74,568 mi.
 * Gross vehicle weight -- 34,017 lbs.
 * Average payload -- 13,966 lbs.
 * Estimated annual quantity -- 8,380 tons
 *
 * B. Total Operating Cost per mile (cents/mile)
 *
 * Paved roads Gravel roads
 *
 * 341.8 Total Operating Cost 349.5

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	19000 kg.	19000 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	2534 tonnes	2534 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 17523	\$ 17523
	Wage burden	\$ 10362	\$ 10362

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,885	22.44	69.7	Tractor variable costs	27,885	22.44	69.7
4,853	3.90	12.1	Driver	4,853	3.90	12.1
5,021	4.04	12.6	Fuel	6,026	4.85	15.1
149	0.12	0.4	Repairs	149	0.12	0.4
			Cleaning			
1,591	1.28	4.0	Transport	2,275	1.83	5.7
39,499	31.78	98.8	Tires	41,188	33.14	103.0
			Total tractor variable			
8,373	6.74	20.9	Tractor fixed costs	8,373	6.74	20.9
764	0.61	1.9	Depreciation	764	0.61	1.9
9,137	7.35	22.8	Licences	9,137	7.35	22.8
			Total tractor fixed			
48,636	39.13	121.6	Tractor total	50,325	40.49	125.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
48,636	39.13	121.6	Total vehicle costs	50,325	40.49	125.8
2,916	2.35	7.3	Insurance costs	2,986	2.40	7.5
13,610	10.95	34.0	Admin. and interest	13,934	11.21	34.8
22,331	17.97	55.8	Pickup and delivery	22,331	17.97	55.8
9,721	7.82	24.3	Profit	9,953	8.01	24.9
97,214	78.22	243.0	Total operating cost	99,529	80.08	248.8

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	41,887 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

391.1 Total Operating Cost 400.4

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	19000 kg.	19000 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	5068 tonnes	5068 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 35046	\$ 35046
	Wage burden	\$ 20724	\$ 20724

C. Total Operating Costs

P a v e d R o a d s G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
55,770	22.44	69.7	Driver	55,770	22.44	69.7
9,705	3.90	12.1	Fuel	9,705	3.90	12.1
10,043	4.04	12.6	Repairs	12,051	4.85	15.1
299	0.12	0.4	Cleaning	299	0.12	0.4
			Transport			
3,182	1.28	4.0	Tires	4,550	1.83	5.7
78,999	31.78	98.8	Total tractor variable	82,375	33.14	103.0
			Tractor fixed costs			
8,373	3.37	10.5	Depreciation	8,373	3.37	10.5
764	0.31	1.0	Licences	764	0.31	1.0
9,137	3.68	11.5	Total tractor fixed	9,137	3.68	11.5
88,136	35.46	110.3	Tractor total	91,512	36.82	114.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
88,136	35.46	110.3	Total vehicle costs	91,512	36.82	114.5
5,457	2.20	6.8	Insurance costs	5,596	2.25	7.0
25,468	10.25	31.8	Admin. and interest	26,116	10.51	32.6
44,662	17.97	55.8	Pickup and delivery	44,662	17.97	55.8
18,191	7.32	22.7	Profit	18,654	7.50	23.3
181,914	73.20	227.4	Total operating cost	186,540	75.05	233.2

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	41,887 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

366.0 Total Operating Cost 375.3

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	19000 kg.	19000 kg.
	Average Payload	6335 kg.	6335 kg.
	Estimated Annual Quantity	7602 tonnes	7602 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 52569	\$ 52569
	Wage burden	\$ 31086	\$ 31086

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
83,655	22.44	69.7	Driver	83,655	22.44	69.7
14,558	3.90	12.1	Fuel	14,558	3.90	12.1
15,064	4.04	12.6	Repairs	18,077	4.85	15.1
448	0.12	0.4	Cleaning	448	0.12	0.4
			Transport			
4,773	1.28	4.0	Tires	6,825	1.83	5.7
118,498	31.78	98.8	Total tractor variable	123,563	33.14	103.0
			Tractor fixed costs			
8,373	2.25	7.0	Depreciation	8,373	2.25	7.0
764	0.20	0.6	Licences	764	0.20	0.6
9,137	2.45	7.6	Total tractor fixed	9,137	2.45	7.6
127,635	34.23	106.4	Tractor total	132,700	35.59	110.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
127,635	34.23	106.4	Total vehicle costs	132,700	35.59	110.6
7,998	2.15	6.7	Insurance costs	8,207	2.20	6.8
37,326	10.01	31.1	Admin. and interest	38,297	10.27	31.9
66,993	17.97	55.8	Pickup and delivery	66,993	17.97	55.8
26,661	7.15	22.2	Profit	27,355	7.34	22.8
266,613	71.51	222.2	Total operating cost	273,552	73.37	227.9

* Imperial Equivalent Summary *

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	41,887 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

357.6 Total Operating Cost 366.8

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Dry Freight

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
		18500 kg.	18500 kg.
	Gross Vehicle Weight	6335 kg.	6335 kg.
	Average Payload	2534 tonnes	2534 tonnes
	Estimated Annual Quantity	3.1 hrs.	3.1 hrs.
	Trip Running Time	1243 hrs.	1243 hrs.
	Annual Running Hours		
B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 15510	\$ 15510
	Wage burden	\$ 10230	\$ 10230

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
25,740	20.71	64.4	Tractor variable costs		
5,681	4.57	14.2	Driver	25,740	20.71
4,831	3.89	12.1	Fuel	5,681	4.57
149	0.12	0.4	Repairs	5,798	4.67
			Cleaning	149	0.12
			Transport		
1,591	1.28	4.0	Tires	2,275	1.83
37,992	30.57	95.1	Total tractor variable	39,643	31.90
			Tractor fixed costs		
8,451	6.80	21.1	Depreciation	8,451	6.80
822	0.66	2.1	Licences	822	0.66
9,273	7.46	23.2	Total tractor fixed	9,273	7.46
47,265	38.03	118.3	Tractor total	48,916	39.36
			Trailer variable costs		
			Repairs		
			Cleaning		
			Transport		
			Tires		
			Total trailer variable		
			Trailer fixed costs		
			Depreciation		
			Licences		
			Total trailer fixed		
			Trailer total		
47,265	38.03	118.3	Total vehicle costs	48,916	39.36
2,755	2.22	6.9	Insurance costs	2,822	2.27
12,855	10.34	32.1	Admin. and interest	13,172	10.60
19,765	15.90	49.4	Pickup and delivery	19,765	15.90
9,182	7.39	23.0	Profit	9,408	7.57
91,822	73.88	229.7	Total operating cost	94,083	75.70

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	40,785 lbs.
	Average payload --	13,966 lbs.
	Estimated annual quantity --	2,793 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
369.7	Total Operating Cost 378.7

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	5068 tonnes	5068 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 31020	\$ 31020
Wage burden	\$ 20460	\$ 20460

C. Total Operating Costs

Paved Roads Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,480	20.71	64.4	Tractor variable costs	51,480	20.71	64.4
11,361	4.57	14.2	Driver	11,361	4.57	14.2
9,663	3.89	12.1	Fuel	11,595	4.66	14.5
299	0.12	0.4	Repairs	299	0.12	0.4
			Cleaning			
			Transport			
3,182	1.28	4.0	Tires	4,550	1.83	5.7
75,985	30.57	95.1	Total tractor variable	79,285	31.89	99.2
			Tractor fixed costs			
8,451	3.40	10.6	Depreciation	8,451	3.40	10.6
822	0.33	1.0	Licences	822	0.33	1.0
9,273	3.73	11.6	Total tractor fixed	9,273	3.73	11.6
85,258	34.30	106.7	Tractor total	88,558	35.62	110.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
85,258	34.30	106.7	Total vehicle costs	88,558	35.62	110.8
5,128	2.06	6.4	Insurance costs	5,264	2.12	6.6
23,932	9.63	29.9	Admin. and interest	24,565	9.88	30.7
39,530	15.90	49.4	Pickup and delivery	39,530	15.90	49.4
17,094	6.88	21.4	Profit	17,546	7.06	21.9
170,942	68.77	213.8	Total operating cost	175,463	70.58	219.4

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	5,586 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

344.1 Total Operating Cost 353.1

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Dry Freight

Annual distance -- 120000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	6335 kg.	6335 kg.
Estimated Annual Quantity	7602 tonnes	7602 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 46530	\$ 46530
Wage burden	\$ 30689	\$ 30689

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost	Cost per Running Hour	Cost per km.		Total Cost	Cost per Running Hour	Cost per km.
77,219	20.71	64.3	Tractor variable costs	77,219	20.71	64.3
17,042	4.57	14.2	Driver	17,042	4.57	14.2
14,494	3.89	12.1	Fuel	17,393	4.67	14.5
448	0.12	0.4	Repairs	448	0.12	0.4
			Cleaning			
			Transport			
4,773	1.28	4.0	Tires	6,825	1.83	5.7
113,976	30.57	95.0	Total tractor variable	118,927	31.90	99.1
			Tractor fixed costs			
8,451	2.27	7.0	Depreciation	8,451	2.27	7.0
822	0.22	0.7	Licences	822	0.22	0.7
9,273	2.49	7.7	Total tractor fixed	9,273	2.49	7.7
123,249	33.06	102.7	Tractor total	128,200	34.39	106.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
123,249	33.06	102.7	Total vehicle costs	128,200	34.39	106.8
7,502	2.01	6.3	Insurance costs	7,705	2.07	6.4
35,005	9.39	29.2	Admin. and interest	35,958	9.64	30.0
59,296	15.90	49.4	Pickup and delivery	59,296	15.90	49.4
35,005	6.71	20.8	Profit	25,684	6.89	21.4
250,061	67.07	208.4	Total operating cost	250,843	68.09	214.0

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	13,966 lbs.
Estimated annual quantity --	8,380 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

335.4

Total Operating Cost 344.4

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13608	\$ 13608
Wage burden	\$ 5744	\$ 5744

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
19,352	15.57	48.4	Tractor variable costs	19,352	15.57	48.4
4,431	3.57	11.1	Driver	4,431	3.57	11.1
5,553	4.47	13.9	Fuel	6,664	5.36	16.7
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,540	1.25	3.9	Tires	2,216	1.78	5.5
31,064	25.00	77.7	Total tractor variable	32,842	26.42	82.1
			Tractor fixed costs			
8,654	6.96	21.6	Depreciation	8,654	6.96	21.6
482	0.39	1.2	Licences	482	0.39	1.2
9,136	7.35	22.8	Total tractor fixed	9,136	7.35	22.8
40,200	32.35	100.5	Tractor total	41,978	33.77	104.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
40,200	32.35	100.5	Total vehicle costs	41,978	33.77	104.9
2,201	1.77	5.5	Insurance costs	2,274	1.83	5.7
10,272	8.27	25.7	Admin. and interest	10,613	8.54	26.5
13,359	10.75	33.4	Pickup and delivery	13,359	10.75	33.4
7,337	5.90	18.3	Profit	7,580	6.10	19.0
73,369	59.04	183.4	Total operating cost	75,804	60.99	189.5

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,750 lbs.
Estimated annual quantity --	2,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

295.1

Total Operating Cost

305.0

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 88888 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4888 kg.	4888 kg.
Estimated Annual Quantity	3984 tonnes	3984 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 27217	\$ 27217
Hourly wage	\$ 11488	\$ 11488
Wage burden		

C. Total Operating Costs

Gravel Roads

Paved Roads				Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
38,785	15.57	48.4	Driver	38,785	15.57	48.4
8,863	3.57	11.1	Fuel	8,863	3.57	11.1
11,187	4.47	13.9	Repairs	13,328	5.36	16.7
358	0.14	0.4	Cleaning	358	0.14	0.4
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
62,132	25.08	77.7	Total tractor variable	65,685	26.42	82.1
			Tractor fixed costs			
8,654	3.48	10.8	Depreciation	8,654	3.48	10.8
482	0.19	0.6	Licences	482	0.19	0.6
9,136	3.67	11.4	Total tractor fixed	9,136	3.67	11.4
71,268	28.67	89.1	Tractor total	74,821	30.09	93.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
71,268	28.67	89.1	Total vehicle costs	74,821	30.09	93.5
4,827	1.62	5.8	Insurance costs	4,173	1.68	5.2
18,792	7.56	23.5	Admin. and interest	19,473	7.83	24.3
26,718	10.75	33.4	Pickup and delivery	26,718	10.75	33.4
13,423	5.40	16.8	Profit	13,918	5.60	17.4
134,228	54.00	167.8	Total operating cost	139,095	55.95	173.8

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	10,758 lbs.
	Estimated annual quantity --	4,383 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

270.0 Total Operating Cost 279.7

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	5856 tonnes	5856 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 40825	\$ 40825
Wage burden	\$ 17232	\$ 17232

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
58,057	15.57	48.4	Tractor variable costs	58,057	15.57	48.4
13,294	3.57	11.1	Driver	13,294	3.57	11.1
18,648	4.47	13.9	Fuel	19,992	5.36	16.7
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
4,648	1.25	3.9	Transport	6,647	1.78	5.5
93,196	25.00	77.7	Tires	98,527	26.42	82.1
			Total tractor variable			
8,654	2.32	7.2	Tractor fixed costs	8,654	2.32	7.2
482	0.13	0.4	Depreciation	482	0.13	0.4
9,136	2.45	7.6	Licences	9,136	2.45	7.6
			Total tractor fixed			
102,332	27.45	85.3	Tractor total	107,663	28.87	89.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
102,332	27.45	85.3	Total vehicle costs	107,663	28.87	89.7
5,853	1.57	4.9	Insurance costs	6,072	1.63	5.1
27,332	7.33	22.8	Admin. and interest	28,334	7.60	23.6
40,077	10.75	33.4	Pickup and delivery	40,077	10.75	33.4
16,588	4.45	13.9	Profit	20,239	5.43	16.9
105,081	28.23	86.7	Total operating cost	202,385	54.28	168.7

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,758 lbs.
Estimated annual quantity --	6,455 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

261.8

Total Operating Cost

271.5

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13608	\$ 13608
Wage burden	\$ 5744	\$ 5744

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
19,352	15.57	48.4	Tractor variable costs	19,352	15.57	48.4
4,483	3.61	11.2	Driver	4,483	3.61	11.2
5,553	4.47	13.9	Fuel	6,664	5.36	16.7
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
31,116	25.04	77.8	Total tractor variable	32,894	26.46	82.2
			Tractor fixed costs			
8,576	6.90	21.4	Depreciation	8,576	6.90	21.4
481	0.39	1.2	Licences	481	0.39	1.2
9,057	7.29	22.6	Total tractor fixed	9,057	7.29	22.6
40,173	32.33	100.4	Tractor total	41,951	33.75	104.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
40,173	32.33	100.4	Total vehicle costs	41,951	33.75	104.8
2,200	1.77	5.5	Insurance costs	2,273	1.83	5.7
10,267	8.26	25.7	Admin. and interest	10,607	8.53	26.5
13,359	10.75	33.4	Pickup and delivery	13,359	10.75	33.4
7,333	5.90	18.3	Profit	7,577	6.10	18.9
73,332	59.01	183.3	Total operating cost	75,767	60.96	189.3

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
Gross vehicle weight -- 31,967 lbs.
Average payload -- 10,750 lbs.
Estimated annual quantity -- 2,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

295.0 Total Operating Cost 304.6

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	3904 tonnes	3904 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 27217	\$ 27217
Wage burden	\$ 11488	\$ 11488

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
38,705	15.57	48.4	Driver	38,705	15.57	48.4
8,966	3.61	11.2	Fuel	8,966	3.61	11.2
11,107	4.47	13.9	Repairs	13,328	5.36	16.7
358	0.14	0.4	Cleaning	358	0.14	0.4
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
62,235	25.04	77.8	Total tractor variable	65,788	26.46	82.2
			Tractor fixed costs			
8,576	3.45	10.7	Depreciation	8,576	3.45	10.7
481	0.19	0.6	Licences	481	0.19	0.6
9,057	3.64	11.3	Total tractor fixed	9,057	3.64	11.3
71,292	28.68	89.1	Tractor total	74,845	30.10	93.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
71,292	28.68	89.1	Total vehicle costs	74,845	30.10	93.5
4,028	1.62	5.0	Insurance costs	4,174	1.68	5.2
18,796	7.56	23.5	Admin. and interest	19,478	7.84	24.3
26,718	10.75	33.4	Pickup and delivery	26,718	10.75	33.4
13,426	5.40	16.8	Profit	13,913	5.60	17.4
134,260	54.01	167.8	Total operating cost	139,128	55.97	173.8

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,750 lbs.
Estimated annual quantity --	4,303 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

270.0

Total Operating Cost 279.7

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	5856 tonnes	5856 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 40825	\$ 40825
Wage burden	\$ 17232	\$ 17232

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.			
				Cost per Running Hour \$	Cost per km.
			Tractor variable costs		
58,057	15.57	48.4	Driver	58,057	15.57
13,449	3.61	11.2	Fuel	13,449	3.61
16,660	4.47	13.9	Repairs	19,992	5.36
537	0.14	0.4	Cleaning	537	0.14
			Transport		
4,648	1.25	3.9	Tires	6,647	1.78
93,351	25.04	77.8	Total tractor variable	98,682	26.46
			Tractor fixed costs		
8,576	2.30	7.1	Depreciation	8,576	2.30
481	0.13	0.4	Licences	481	0.13
9,057	2.43	7.5	Total tractor fixed	9,057	2.43
102,408	27.47	85.3	Tractor total	107,739	28.89
			Trailer variable costs		
			Repairs		
			Cleaning		
			Transport		
			Tires		
			Total trailer variable		
			Trailer fixed costs		
			Depreciation		
			Licences		
			Total trailer fixed		
			Trailer total		
102,408	27.47	85.3	Total vehicle costs	107,739	28.89
5,856	1.57	4.9	Insurance costs	6,075	1.63
27,326	7.33	22.8	Admin. and interest	28,348	7.60
48,077	10.75	33.4	Pickup and delivery	48,077	10.75
19,519	5.24	16.3	Profit	20,249	5.43
195,186	52.36	162.7	Total operating cost	202,488	54.30

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	10,750 lbs.
Estimated annual quantity --	6,435 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

261.8 Total Operating Cost 271.5

Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	1952 tonnes	1952 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 11185	\$ 11185
Wage burden	\$ 4721	\$ 4721

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.			
			Tractor variable costs		
15,906	12.80	39.8	Driver	15,906	39.8
4,430	3.56	11.1	Fuel	4,430	11.1
5,553	4.47	13.9	Repairs	6,664	16.7
179	0.14	0.4	Cleaning	179	0.4
			Transport		
1,549	1.25	3.9	Tires	2,216	5.5
27,617	22.22	69.1	Total tractor variable	29,395	73.5
			Tractor fixed costs		
8,576	6.90	21.4	Depreciation	8,576	21.4
395	0.32	1.0	Licences	395	1.0
8,971	7.22	22.4	Total tractor fixed	8,971	22.4
36,588	29.44	91.5	Tractor total	38,366	95.9
			Trailer variable costs		
			Repairs		
			Cleaning		
			Transport		
			Tires		
			Total trailer variable		
			Trailer fixed costs		
			Depreciation		
			Licences		
			Total trailer fixed		
			Trailer total		
36,588	29.44	91.5	Total vehicle costs	38,366	95.9
1,955	1.57	4.9	Insurance costs	2,028	5.1
9,123	7.34	22.8	Admin. and interest	9,464	23.7
10,980	8.84	27.5	Pickup and delivery	10,980	27.5
6,516	5.24	16.3	Profit	6,760	16.9
65,162	52.43	163.0	Total operating cost	67,598	169.1

***** Imperial Equivalent Summary *****

A. Annual distance travelled	--	24,856 mi.
Gross vehicle weight	--	31,967 lbs.
Average payload	--	10,758 lbs.
Estimated annual quantity	--	2,152 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s	G r a v e l r o a d s
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262.3	Total Operating Cost	272.1
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Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	4880 kg.	4880 kg.
Estimated Annual Quantity	3904 tonnes	3904 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 22370	\$ 22370
Wage burden	\$ 9442	\$ 9442

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,812	12.80	39.8	Tractor variable costs	31,812	12.80	39.8
8,861	3.57	11.1	Driver	8,861	3.57	11.1
11,107	4.47	13.9	Fuel	13,328	5.36	16.7
358	0.14	0.4	Repairs	358	0.14	0.4
			Cleaning			
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
55,237	22.23	69.1	Total tractor variable	58,790	23.65	73.5
			Tractor fixed costs			
8,576	3.45	10.7	Depreciation	8,576	3.45	10.7
395	0.16	0.5	Licences	395	0.16	0.5
8,971	3.61	11.2	Total tractor fixed	8,971	3.61	11.2
64,208	25.84	80.3	Tractor total	67,761	27.26	84.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
64,208	25.84	80.3	Total vehicle costs	67,761	27.26	84.7
3,541	1.42	4.4	Insurance costs	3,687	1.48	4.6
16,525	6.65	20.7	Admin. and interest	17,207	6.92	21.5
21,960	8.84	27.5	Pickup and delivery	21,960	8.84	27.5
11,804	4.75	14.8	Profit	12,291	4.94	15.4
118,038	47.50	147.7	Total operating cost	122,906	49.44	153.7

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	10,758 lbs.
	Estimated annual quantity --	4,303 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
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237.7	Total Operating Cost	247.3
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Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14500 kg.	14500 kg.
	Average Payload	4880 kg.	4880 kg.
	Estimated Annual Quantity	5856 tonnes	5856 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 33555	\$ 33555
	Wage burden	\$ 14163	\$ 14163

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
47,718	12.80	39.8	Tractor variable costs	47,718	12.80	39.8
13,291	3.56	11.1	Driver	13,291	3.56	11.1
16,660	4.47	13.9	Fuel	19,992	5.36	16.7
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
4,648	1.25	3.9	Tires	6,647	1.78	5.5
82,854	22.22	69.1	Total tractor variable	88,185	23.64	73.5
			Tractor fixed costs			
8,576	2.30	7.1	Depreciation	8,576	2.30	7.1
395	0.11	0.3	Licences	395	0.11	0.3
8,971	2.41	7.4	Total tractor fixed	8,971	2.41	7.4
91,825	24.63	76.5	Tractor total	97,156	26.05	80.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
91,825	24.63	76.5	Total vehicle costs	97,156	26.05	80.9
5,127	1.38	4.3	Insurance costs	5,346	1.43	4.5
23,928	6.42	19.9	Admin. and interest	24,950	6.69	20.8
32,940	8.84	27.5	Pickup and delivery	32,940	8.84	27.5
17,091	4.58	14.2	Profit	17,822	4.78	14.9
170,911	45.85	142.4	Total operating cost	178,214	47.79	148.6

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	10,758 lbs.
	Estimated annual quantity --	6,455 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

229.2

Total Operating Cost

239.1

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14969 kg.	14969 kg.
Average Payload	5335 kg.	5335 kg.
Estimated Annual Quantity	2134 tonnes	2134 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 11931	\$ 11931
Wage burden	\$ 5268	\$ 5268

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
17,199	13.84	43.0	Tractor variable costs	17,199	13.84	43.0
4,996	4.02	12.5	Driver	4,996	4.02	12.5
5,464	4.40	13.7	Fuel	6,557	5.28	16.4
179	0.14	0.4	Repairs	179	0.14	0.4
			Cleaning			
			Transport			
1,549	1.25	3.9	Tires	2,216	1.78	5.5
29,387	23.65	73.5	Total tractor variable	31,147	25.06	77.8
			Tractor fixed costs			
8,732	7.03	21.8	Depreciation	8,732	7.03	21.8
440	0.35	1.1	Licences	440	0.35	1.1
9,172	7.38	22.9	Total tractor fixed	9,172	7.38	22.9
38,559	31.03	96.4	Tractor total	40,319	32.44	100.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
38,559	31.03	96.4	Total vehicle costs	40,319	32.44	100.7
2,111	1.70	5.3	Insurance costs	2,183	1.76	5.5
9,851	7.93	24.6	Admin. and interest	10,188	8.20	25.5
12,804	10.30	32.0	Pickup and delivery	12,804	10.30	32.0
7,036	5.66	17.6	Profit	7,277	5.86	18.2
70,361	56.62	175.9	Total operating cost	72,771	58.56	181.9

Imperial Equivalent Summary

A.	Annual distance travelled	--	24,856 mi.
	Gross vehicle weight	--	33,001 lbs.
	Average payload	--	11,762 lbs.
	Estimated annual quantity	--	2,352 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

283.1

Total Operating Cost 292.7

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14969 kg.	14969 kg.
Average Payload	5335 kg.	5335 kg.
Estimated Annual Quantity	4268 tonnes	4268 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 23861	\$ 23861
Wage burden	\$ 10537	\$ 10537

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
34,398	13.84	43.0	Tractor variable costs			
9,993	4.02	12.5	Driver	34,398	13.84	43.0
10,928	4.40	13.7	Fuel	9,993	4.02	12.5
358	0.14	0.4	Repairs	13,113	5.28	16.4
			Cleaning	358	0.14	0.4
			Transport			
3,099	1.25	3.9	Tires	4,431	1.78	5.5
58,776	23.65	73.5	Total tractor variable	62,293	25.06	77.8
			Tractor fixed costs			
8,732	3.51	10.9	Depreciation	8,732	3.51	10.9
440	0.18	0.6	Licences	440	0.18	0.6
9,172	3.69	11.5	Total tractor fixed	9,172	3.69	11.5
67,948	27.34	85.0	Tractor total	71,465	28.75	89.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
67,948	27.34	85.0	Total vehicle costs	71,465	28.75	89.3
3,845	1.55	4.8	Insurance costs	3,989	1.60	5.0
17,942	7.22	22.4	Admin. and interest	18,617	7.49	23.3
25,608	10.30	32.0	Pickup and delivery	25,608	10.30	32.0
12,816	5.16	16.0	Profit	13,298	5.35	16.6
128,159	51.57	160.2	Total operating cost	132,977	53.49	166.2

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.

Gross vehicle weight -- 33,001 lbs.

Average payload -- 11,762 lbs.

Estimated annual quantity -- 4,705 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads 257.8

Gravel roads 267.5

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.	14969 kg.
	Average Payload	5335 kg.	5335 kg.
	Estimated Annual Quantity	6402 tonnes	6402 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 35792	\$ 35792
	Wage burden	\$ 15805	\$ 15805

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,597	13.84	43.0	Tractor variable costs	51,597	13.84	43.0
14,989	4.02	12.5	Driver	14,989	4.02	12.5
16,392	4.40	13.7	Fuel	19,670	5.28	16.4
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
4,648	1.25	3.9	Tires	6,647	1.78	5.5
88,163	23.65	73.5	Total tractor variable	93,440	25.06	77.8
			Tractor fixed costs			
8,732	2.34	7.3	Depreciation	8,732	2.34	7.3
440	0.12	0.4	Licences	440	0.12	0.4
9,172	2.46	7.7	Total tractor fixed	9,172	2.46	7.7
97,335	26.11	81.2	Tractor total	102,612	27.52	85.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
97,335	26.11	81.2	Total vehicle costs	102,612	27.52	85.5
5,579	1.50	4.6	Insurance costs	5,796	1.55	4.8
26,034	6.98	21.7	Admin. and interest	27,046	7.25	22.5
38,412	10.30	32.0	Pickup and delivery	38,412	10.30	32.0
18,596	4.99	15.5	Profit	19,318	5.18	16.1
185,956	49.88	155.0	Total operating cost	193,184	51.80	160.9

Imperial Equivalent Summary			
A.	Annual distance travelled --	74,568 mi.	
	Gross vehicle weight --	33,001 lbs.	
	Average payload --	11,762 lbs.	
	Estimated annual quantity --	7,057 tons	
B.	Total Operating Cost per mile (cents/mile)		
	Paved roads		Gravel roads
	249.4	Total Operating Cost	258.9

N.W.T.

Annual distance -- 40000 km.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 18580	\$ 18580
	Wage burden	\$ 9918	\$ 9918

Gravel Roads

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*****
* Imperial Equivalent Summary
*
* A. Annual distance travelled -- 24,856 mi.
* Gross vehicle weight -- 33,069 lbs.
* Average payload -- 11,982 lbs.
* Estimated annual quantity -- 2,396 tons
*
* B. Total Operating Cost per mile (cents/mile)
*
* Paved roads Gravel roads
*
* 381.4 Total Operating Cost 391.9
*****

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Configuration -- 2 axle straight truck (diesel)

N.W.T.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5435 kg.	5435 kg.
Estimated Annual Quantity	4348 tonnes	4348 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 37159	\$ 37159
Wage burden	\$ 19835	\$ 19835

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
56,994	22.93	71.2	Driver	56,994	22.93	71.2
9,952	4.00	12.4	Fuel	9,952	4.00	12.4
10,586	4.26	13.2	Repairs	12,703	5.11	15.9
358	0.14	0.4	Cleaning	358	0.14	0.4
			Transport			
3,766	1.52	4.7	Tires	5,385	2.17	6.7
81,656	32.85	101.9	Total tractor variable	85,392	34.35	106.6
			Tractor fixed costs			
7,796	3.14	9.7	Depreciation	7,796	3.14	9.7
320	0.13	0.4	Licences	320	0.13	0.4
8,116	3.27	10.1	Total tractor fixed	8,116	3.27	10.1
89,772	36.12	112.0	Tractor total	93,508	37.62	116.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
89,772	36.12	112.0	Total vehicle costs	93,508	37.62	116.7
5,355	2.16	6.7	Insurance costs	5,512	2.22	6.9
25,008	10.06	31.3	Admin. and interest	25,725	10.35	32.2
40,627	16.35	50.8	Pickup and delivery	40,627	16.35	50.8
17,863	7.19	22.3	Profit	18,375	7.39	23.0
178,629	71.88	223.1	Total operating cost	183,747	73.93	229.6

Imperial Equivalent Summary

A. Annual distance travelled	--	49,712 mi.
Gross vehicle weight	--	33,069 lbs.
Average payload	--	11,982 lbs.
Estimated annual quantity	--	4,793 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

359.0

Total Operating Cost

369.5

Configuration -- 2 axle straight truck (diesel)

N.W.T.

Commodity -- Dry Freight

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5435 kg.	5435 kg.
Estimated Annual Quantity	6522 tonnes	6522 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3720 hrs.	3720 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 55739	\$ 55739
Wage burden	\$ 29753	\$ 29753

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
85,492	22.93	71.2	Tractor variable costs	85,492	22.93	71.2
14,928	4.00	12.4	Driver	14,928	4.00	12.4
15,879	4.26	13.2	Fuel	19,054	5.11	15.9
537	0.14	0.4	Repairs	537	0.14	0.4
			Cleaning			
			Transport			
5,649	1.52	4.7	Tires	8,078	2.17	6.7
122,485	32.85	101.9	Total tractor variable	128,089	34.35	106.6
			Tractor fixed costs			
7,796	2.09	6.5	Depreciation	7,796	2.09	6.5
320	0.09	0.3	Licences	320	0.09	0.3
8,116	2.18	6.8	Total tractor fixed	8,116	2.18	6.8
130,601	35.03	108.7	Total tractor total	136,205	36.53	113.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
130,601	35.03	108.7	Total vehicle costs	136,205	36.53	113.4
7,872	2.11	6.6	Insurance costs	8,102	2.17	6.6
36,734	9.85	30.6	Admin. and interest	37,809	10.14	31.5
60,940	16.35	50.8	Pickup and delivery	60,940	16.35	50.8
26,239	7.04	21.9	Profit	27,006	7.24	22.5
262,386	70.38	218.6	Total operating cost	270,062	72.43	225.0

Imperial Equivalent Summary

A. Annual distance travelled -- 74,568 mi.
 Gross vehicle weight -- 33,069 lbs.
 Average payload -- 11,982 lbs.
 Estimated annual quantity -- 7,189 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

351.8 Total Operating Cost 362.1

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Dry Freight

Annual distance -- 40000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	2360 tonnes	2360 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 21115	\$ 21115
Wage burden	\$ 10389	\$ 10389

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
31,504	25.35	78.8	Driver	31,504	25.35	78.8
4,953	3.99	12.4	Fuel	4,953	3.99	12.4
5,564	4.48	13.9	Repairs	6,677	5.37	16.7
209	0.17	0.5	Cleaning	209	0.17	0.5
			Transport			
1,883	1.52	4.7	Tires	2,693	2.17	6.7
44,113	35.51	110.3	Total tractor variable	46,036	37.05	113.1
			Tractor fixed costs			
7,796	6.27	19.5	Depreciation	7,796	6.27	19.5
400	0.32	1.0	Licences	400	0.32	1.0
8,196	6.59	20.5	Total tractor fixed	8,196	6.59	20.5
52,309	42.10	130.8	Tractor total	54,232	43.64	135.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
52,309	42.10	130.8	Total vehicle costs	54,232	43.64	135.6
3,100	2.56	8.0	Insurance costs	3,259	2.62	8.1
14,838	11.94	37.1	Admin. and interest	15,207	12.24	38.0
25,860	20.16	62.7	Pickup and delivery	25,860	20.16	62.7
10,599	8.53	26.5	Profit	10,862	8.74	27.2
105,986	85.29	265.1	Total operating cost	108,620	87.40	271.6

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	13,007 lbs.
Estimated annual quantity --	2,601 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

426.6 Total Operating Cost 437.1

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	5900 kg.	5900 kg.
Estimated Annual Quantity	4720 tonnes	4720 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 0	\$ 0
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 42230	\$ 42230
Wage burden	\$ 20779	\$ 20779

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
63,009	25.35	78.8	Tractor variable costs	63,009	25.35	78.8
9,906	3.99	12.4	Driver	9,906	3.99	12.4
11,129	4.48	13.9	Fuel	13,354	5.37	16.7
410	0.17	0.5	Repairs	410	0.17	0.5
			Cleaning			
			Transport			
3,766	1.52	4.7	Tires	5,385	2.17	6.7
88,220	35.51	110.3	Total tractor variable	92,072	37.05	115.1
			Tractor fixed costs			
7,796	3.14	9.7	Depreciation	7,796	3.14	9.7
400	0.16	0.5	Licences	400	0.16	0.5
8,196	3.30	10.2	Total tractor fixed	8,196	3.30	10.2
96,424	38.81	120.5	Tractor total	100,268	40.35	125.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
96,424	38.81	120.5	Total vehicle costs	100,268	40.35	125.3
6,822	2.42	7.5	Insurance costs	6,180	2.49	7.7
28,104	11.31	35.1	Admin. and interest	28,842	11.60	36.1
50,121	20.16	62.7	Pickup and delivery	50,121	20.16	62.7
20,075	8.08	25.1	Profit	20,601	8.29	25.8
200,746	80.78	250.9	Total operating cost	206,012	82.89	257.6

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
Gross vehicle weight -- 33,069 lbs.
Average payload -- 13,007 lbs.
Estimated annual quantity -- 5,203 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

483.8 Total Operating Cost 414.6

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Dry Freight

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15000 kg.	15000 kg.
	Average Payload	5900 kg.	5900 kg.
	Estimated Annual Quantity	7080 tonnes	7080 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3720 hrs.	3720 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 0	\$ 0
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 63344	\$ 63344
	Wage burden	\$ 31168	\$ 31168

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
94,512	25.35	78.8	Driver	94,512	25.35	78.8
14,858	3.99	12.4	Fuel	14,858	3.99	12.4
16,693	4.48	13.9	Repairs	20,031	5.37	16.7
627	0.17	0.5	Cleaning	627	0.17	0.5
			Transport			
5,649	1.52	4.7	Tires	8,078	2.17	6.7
132,339	35.51	110.3	Total tractor variable	138,106	37.05	115.1
			Tractor fixed costs			
7,796	2.09	6.5	Depreciation	7,796	2.09	6.5
400	0.11	0.3	Licences	400	0.11	0.3
8,196	2.20	6.8	Total tractor fixed	8,196	2.20	6.8
140,535	37.71	117.1	Tractor total	146,302	39.25	121.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
140,535	37.71	117.1	Total vehicle costs	146,302	39.25	121.9
			Insurance costs	9,102	2.44	7.6
8,865	2.38	7.4	Admin. and interest	42,476	11.39	35.4
41,370	11.10	34.5	Pickup and delivery	75,181	20.16	62.7
75,181	20.16	62.7	Profit	30,340	8.14	25.3
29,550	7.93	24.6	Total operating cost	303,401	81.38	252.9
295,501	79.28	246.3				

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	33,069 lbs.
	Average payload --	13,007 lbs.
	Estimated annual quantity --	7,804 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

396.4 Total Operating Cost 407.0

2 AXLE TRUCK

GASOLINE

BULK



Configuration -- 2 axle straight truck (gasoline)

British Columbia

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	2628 tonnes	2628 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1084	\$ 1084
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 17424	\$ 17424
Wage burden	\$ 4516	\$ 4516

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
23,024	18.53	57.6	Tractor variable costs	23,024	18.53	57.6
7,368	5.93	18.4	Driver	7,368	5.93	18.4
6,805	5.48	17.0	Fuel	8,166	6.57	20.4
208	0.17	0.5	Repairs	208	0.17	0.5
469	0.38	1.2	Cleaning	469	0.38	1.2
1,719	1.38	4.3	Transport	2,459	1.98	6.1
39,593	31.87	99.0	Tires	41,694	33.56	104.2
			Total tractor variable			
12,777	10.28	31.9	Tractor fixed costs	12,777	10.28	31.9
426	0.34	1.1	Depreciation	426	0.34	1.1
13,203	10.62	33.0	Licences	13,203	10.62	33.0
			Total tractor fixed			
52,796	42.49	132.0	Tractor total	54,897	44.18	137.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
52,796	42.49	132.0	Total vehicle costs	54,897	44.18	137.2
2,170	1.75	5.4	Insurance costs	2,256	1.82	5.6
10,125	8.15	25.3	Admin. and interest	10,528	8.47	26.3
7,232	5.82	18.1	Pickup and delivery	7,520	6.05	18.8
72,323	58.21	180.8	Profit	75,201	60.52	187.9
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled	--	24,856 mi.
Gross vehicle weight	--	32,187 lbs.
Average payload	--	14,484 lbs.
Estimated annual quantity	--	2,897 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

291.0

Total Operating Cost

302.4

Configuration -- 2 axle straight truck (gasoline)

British Columbia

Commodity -- Bulk

Annual distance -- 80000 km.

		Paved Road	Gravel Road
A. Vehicle Utilization			
Gross Vehicle Weight		14600 kg.	14600 kg.
Average Payload		6570 kg.	6570 kg.
Estimated Annual Quantity		5256 tonnes	5256 tonnes
Trip Running Time		3.1 hrs.	3.1 hrs.
Annual Running Hours		2486 hrs.	2486 hrs.

B. Driver Costs			
Load - unload time cost	\$ 2167	\$ 2167	
Distance wage	\$ 0	\$ 0	
Hourly wage	\$ 34847	\$ 34847	
Wage burden	\$ 9032	\$ 9032	

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
46,046	18.53	57.6	Driver	46,046	18.53	57.6
14,737	5.93	18.4	Fuel	14,737	5.93	18.4
13,609	5.48	17.0	Repairs	16,331	6.57	20.4
416	0.17	0.5	Cleaning	416	0.17	0.5
469	0.19	0.6	Transport	469	0.19	0.6
3,439	1.38	4.3	Tires	4,917	1.98	6.1
78,716	31.68	98.4	Total tractor variable	82,916	33.37	103.6
			Tractor fixed costs			
12,777	5.14	16.0	Depreciation	12,777	5.14	16.0
426	0.17	0.5	Licences	426	0.17	0.5
13,203	5.31	16.5	Total tractor fixed	13,203	5.31	16.5
91,919	36.99	114.9	Tractor total	96,119	38.68	120.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
91,919	36.99	114.9	Total vehicle costs	96,119	38.68	120.1
3,777	1.52	4.7	Insurance costs	3,950	1.59	4.9
17,628	7.09	22.0	Admin. and interest	18,434	7.42	23.0
12,592	5.07	15.7	Pickup and delivery	13,167	5.30	16.5
125,916	50.67	157.3	Profit	131,670	52.99	164.5
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	5,794 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
253.1	Total Operating Cost 264.7

Configuration -- 2 axle straight truck (gasoline)

British Columbia

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	7884 tonnes	7884 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3251	\$ 3251
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 52271	\$ 52271
Wage burden	\$ 13547	\$ 13547

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
69,069	18.53	57.6	Tractor variable costs	69,069	18.53	57.6
22,105	5.93	18.4	Driver	22,105	5.93	18.4
20,414	5.48	17.0	Fuel	24,497	6.57	20.4
623	0.17	0.5	Repairs	623	0.17	0.5
469	0.13	0.4	Cleaning	469	0.13	0.4
5,158	1.38	4.3	Transport	7,376	1.98	6.1
117,838	31.62	98.2	Tires	124,139	33.31	103.4
			Total tractor variable			
12,777	3.43	10.6	Tractor fixed costs	12,777	3.43	10.6
426	0.11	0.4	Depreciation	426	0.11	0.4
13,203	3.54	11.0	Licences	13,203	3.54	11.0
			Total tractor fixed			
131,041	35.16	109.2	Tractor total	137,342	36.85	114.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
131,041	35.16	109.2	Total vehicle costs	137,342	36.85	114.4
5,385	1.44	4.5	Insurance costs	5,644	1.51	4.7
25,131	6.74	20.9	Admin. and interest	26,340	7.06	22.0
17,951	4.81	15.0	Pickup and delivery	18,814	5.05	15.7
179,508	48.15	149.6	Profit	188,140	50.47	156.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled	--	74,568 mi.
Gross vehicle weight	--	32,187 lbs.
Average payload	--	14,484 lbs.
Estimated annual quantity	--	8,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

240.8

Total Operating Cost

252.3

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Bulk

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	16400 kg.	16400 kg.
	Average Payload	8370 kg.	8370 kg.
	Estimated Annual Quantity	3348 tonnes	3348 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 1174	\$ 1174
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 14814	\$ 14814
	Wage burden	\$ 4141	\$ 4141

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
20,129	16.20	50.3	Tractor variable costs	20,129	16.20	50.3
6,532	5.26	16.3	Driver	6,532	5.26	16.3
6,243	5.02	15.6	Fuel	7,491	6.03	18.7
239	0.19	0.6	Repairs	239	0.19	0.6
326	0.26	0.8	Cleaning	326	0.26	0.8
1,627	1.31	4.1	Transport	2,326	1.87	5.8
35,096	28.24	87.7	Tires	37,043	29.81	92.5
			Total tractor variable			
12,054	9.70	30.1	Tractor fixed costs	12,054	9.70	30.1
458	0.37	1.1	Depreciation	458	0.37	1.1
12,512	10.07	31.2	Licences	12,512	10.07	31.2
			Total tractor fixed			
47,608	38.31	118.9	Tractor total	49,555	39.88	123.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
47,608	38.31	118.9	Total vehicle costs	49,555	39.88	123.7
1,956	1.57	4.9	Insurance costs	2,037	1.64	5.1
9,130	7.35	22.8	Admin. and interest	9,504	7.65	23.8
6,522	5.25	16.3	Pickup and delivery	6,788	5.46	17.0
65,216	52.48	162.9	Profit	67,884	54.63	169.6
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	36,155 lbs.
	Average payload --	18,453 lbs.
	Estimated annual quantity --	3,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

262.2 Total Operating Cost 272.9

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	16400 kg.	16400 kg.
	Average Payload	8370 kg.	8370 kg.
	Estimated Annual Quantity	6696 tonnes	6696 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2348	\$ 2348
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 29628	\$ 29628
	Wage burden	\$ 8282	\$ 8282

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Running Hour \$	Cost per km.		Total Cost \$	Running Hour \$	Cost per km.
			Tractor variable costs			
40,258	16.20	50.3	Driver	40,258	16.20	50.3
13,064	5.26	16.3	Fuel	13,064	5.26	16.3
12,486	5.02	15.6	Repairs	14,983	6.03	18.7
478	0.19	0.6	Cleaning	478	0.19	0.6
326	0.13	0.4	Transport	326	0.13	0.4
3,254	1.31	4.1	Tires	4,653	1.87	5.8
69,866	28.11	87.3	Total tractor variable	73,762	29.68	92.1
			Tractor fixed costs			
12,054	4.85	15.1	Depreciation	12,054	4.85	15.1
458	0.18	0.6	Licences	458	0.18	0.6
12,512	5.03	15.7	Total tractor fixed	12,512	5.03	15.7
82,378	33.14	103.0	Tractor total	86,274	34.71	107.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
82,378	33.14	103.0	Total vehicle costs	86,274	34.71	107.8
3,385	1.36	4.2	Insurance costs	3,545	1.43	4.4
15,798	6.36	19.7	Admin. and interest	16,546	6.66	20.7
11,285	4.54	14.1	Pickup and delivery	11,818	4.75	14.8
112,846	45.40	141.0	Profit	118,183	47.55	147.7
			Total operating cost			

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 49,712 mi. *

* Gross vehicle weight -- 36,155 lbs. *

* Average payload -- 18,453 lbs. *

* Estimated annual quantity -- 7,381 tons *

* B. Total Operating Cost per mile (cents/mile) *

* P a v e d r o a d s G r a v e l r o a d s *

* 226.9 Total Operating Cost 237.7 *

Configuration -- 2 axle straight truck (gasoline)

Alberta

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	8370 kg.	8370 kg.
Estimated Annual Quantity	10044 tonnes	10044 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3521	\$ 3521
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 44442	\$ 44442
Wage burden	\$ 12422	\$ 12422

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
60,385	16.20	50.3	Tractor variable costs	60,385	16.20	50.3
19,596	5.26	16.3	Driver	19,596	5.26	16.3
18,728	5.02	15.6	Fuel	22,474	6.03	18.7
717	0.19	0.6	Repairs	717	0.19	0.6
326	0.09	0.3	Cleaning	326	0.09	0.3
4,881	1.31	4.1	Transport	6,979	1.87	5.8
104,633	28.07	87.2	Tires	110,477	29.64	92.0
			Total tractor variable			
12,054	3.23	10.0	Tractor fixed costs	12,054	3.23	10.0
458	0.12	0.4	Depreciation	458	0.12	0.4
12,512	3.35	10.4	Licences	12,512	3.35	10.4
			Total tractor fixed			
117,145	31.42	97.6	Tractor total	122,989	32.99	102.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
117,145	31.42	97.6	Total vehicle costs	122,989	32.99	102.4
4,814	1.29	4.0	Insurance costs	5,054	1.36	4.2
22,466	6.03	18.7	Admin. and interest	23,587	6.33	19.7
			Pickup and delivery			
16,047	4.30	13.4	Profit	16,848	4.52	14.0
160,472	43.04	133.7	Total operating cost	168,478	45.20	140.3

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 74,568 mi. *
 * Gross vehicle weight -- 36,155 lbs. *
 * Average payload -- 18,453 lbs. *
 * Estimated annual quantity -- 11,072 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * P a v e d r o a d s G r a v e l r o a d s *
 *
 * 215.2 Total Operating Cost 225.8 *

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road
 14600 kg.
 6570 kg.
 2628 tonnes
 3.1 hrs.
 1243 hrs.

Gravel Road
 14600 kg.
 6570 kg.
 2628 tonnes
 3.1 hrs.
 1243 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 773
 \$ 0
 \$ 12428
 \$ 3261

\$ 773
 \$ 0
 \$ 12428
 \$ 3261

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Running Hour \$	Cost per km.		Total Cost \$	Running Hour \$	Cost per km.
16,462	13.25	41.2	Tractor variable costs	16,462	13.25	41.2
6,857	5.52	17.1	Driver	6,857	5.52	17.1
4,669	3.76	11.7	Fuel	5,602	4.51	14.0
411	0.33	1.0	Repairs	411	0.33	1.0
434	0.35	1.1	Cleaning	434	0.35	1.1
1,614	1.30	4.0	Transport	2,308	1.86	5.8
30,447	24.51	76.1	Tires	32,074	25.82	80.2
			Total tractor variable			
12,898	10.38	32.2	Tractor fixed costs	12,898	10.38	32.2
674	0.54	1.7	Depreciation	674	0.54	1.7
13,572	10.92	33.9	Licences	13,572	10.92	33.9
			Total tractor fixed			
44,019	35.43	110.0	Tractor total	45,646	36.74	114.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
44,019	35.43	110.0	Total vehicle costs	45,646	36.74	114.1
1,809	1.46	4.5	Insurance costs	1,876	1.51	4.7
8,442	6.79	21.1	Admin. and interest	8,754	7.04	21.9
6,030	4.85	15.1	Pickup and delivery	6,253	5.03	15.6
60,300	48.53	150.7	Profit	62,529	50.32	156.3
			Total operating cost			

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 24,856 mi. *
 * Gross vehicle weight -- 32,187 lbs. *
 * Average payload -- 14,484 lbs. *
 * Estimated annual quantity -- 2,897 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * P a v e d r o a d s G r a v e l r o a d s *
 *
 * 242.5 Total Operating Cost 251.5 *

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14680 kg.	14680 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	5256 tonnes	5256 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1546	\$ 1546
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 24856	\$ 24856
Wage burden	\$ 6521	\$ 6521

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
32,923	13.25	41.2	Tractor variable costs	32,923	13.25	41.2
13,714	5.52	17.1	Driver	13,714	5.52	17.1
9,337	3.76	11.7	Fuel	11,205	4.51	14.0
821	0.33	1.0	Repairs	821	0.33	1.0
434	0.17	0.5	Cleaning	434	0.17	0.5
3,228	1.30	4.0	Transport	4,616	1.86	5.8
60,457	24.33	75.5	Tires	63,713	25.64	79.6
			Total tractor variable			
12,898	5.19	16.1	Tractor fixed costs	12,898	5.19	16.1
674	0.27	0.8	Depreciation	674	0.27	0.8
13,572	5.46	16.9	Licences	13,572	5.46	16.9
			Total tractor fixed			
74,029	29.79	92.4	Tractor total	77,285	31.10	96.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
74,029	29.79	92.4	Total vehicle costs	77,285	31.10	96.5
3,042	1.22	3.8	Insurance costs	3,176	1.28	4.0
14,197	5.71	17.7	Admin. and interest	14,822	5.96	18.5
			Pickup and delivery			
10,141	4.08	12.7	Profit	10,587	4.26	13.2
101,409	40.80	126.6	Total operating cost	105,870	42.60	132.2

.....
I m p e r i a l E q u i v a l e n t S u m m a r y
.....

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	32,187 lbs.
	Average payload --	14,484 lbs.
	Estimated annual quantity --	5,794 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

203.7 Total Operating Cost 212.7
.....

Configuration -- 2 axle straight truck (gasoline)

Saskatchewan

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	7884 tonnes	7884 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2319	\$ 2319
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 37283	\$ 37283
Wage burden	\$ 9782	\$ 9782

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,384	13.25	41.2	Tractor variable costs	49,384	13.25	41.2
20,571	5.52	17.1	Driver	20,571	5.52	17.1
14,806	3.76	11.7	Fuel	16,807	4.51	14.0
1,232	0.33	1.0	Repairs	1,232	0.33	1.0
434	0.12	0.4	Cleaning	434	0.12	0.4
4,842	1.30	4.0	Transport	6,924	1.86	5.8
90,469	24.28	75.4	Tires	95,352	25.59	79.5
			Total tractor variable			
12,898	3.46	10.7	Tractor fixed costs	12,898	3.46	10.7
674	0.18	0.6	Depreciation	674	0.18	0.6
13,572	3.64	11.3	Licences	13,572	3.64	11.3
			Total tractor fixed			
104,041	27.92	86.7	Tractor total	108,924	29.23	90.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
104,041	27.92	86.7	Total vehicle costs	108,924	29.23	90.8
4,276	1.15	3.6	Insurance costs	4,476	1.20	3.7
19,953	5.35	16.6	Admin. and interest	20,898	5.60	17.4
			Pickup and delivery			
14,252	3.82	11.9	Profit	14,921	4.00	12.4
142,522	38.24	118.6	Total operating cost	149,211	40.03	124.3

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	8,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

191.2 Total Operating Cost 200.0

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
15430 kg.	15430 kg.
6570 kg.	6570 kg.
2620 tonnes	2620 tonnes
3.1 hrs.	3.1 hrs.
1243 hrs.	1243 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 773	\$ 773
\$ 0	\$ 0
\$ 12428	\$ 12428
\$ 3432	\$ 3432

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
16,633	13.38	41.6	Driver	16,633	13.38	41.6
7,058	5.68	17.6	Fuel	7,058	5.68	17.6
5,103	4.11	12.8	Repairs	5,123	4.93	15.0
322	0.26	0.8	Cleaning	322	0.26	0.8
489	0.39	1.2	Transport	489	0.39	1.2
1,379	1.11	3.4	Tires	1,972	1.59	4.9
30,984	24.93	77.4	Total tractor variable	32,597	26.23	81.4
			Tractor fixed costs			
12,898	10.38	32.2	Depreciation	12,898	10.38	32.2
502	0.40	1.3	Licences	502	0.40	1.3
13,400	10.78	33.5	Total tractor fixed	13,400	10.78	33.5
44,384	35.71	110.9	Tractor total	45,997	37.01	114.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
44,384	35.71	110.9	Total vehicle costs	45,997	37.01	114.9
1,824	1.47	4.6	Insurance costs	1,890	1.52	4.7
8,512	6.85	21.3	Admin. and interest	8,821	7.10	22.1
6,080	4.89	15.2	Pickup and delivery	6,301	5.07	15.0
60,800	48.92	152.0	Profit	63,009	50.70	157.5
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
Gross vehicle weight -- 34,017 lbs.
Average payload -- 14,484 lbs.
Estimated annual quantity -- 2,897 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

244.6 Total Operating Cost 253.5

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road		Gravel Road	
Gross Vehicle Weight	15430 kg.		15430 kg.	
Average Payload	6570 kg.		6570 kg.	
Estimated Annual Quantity	5256 tonnes		5256 tonnes	
Trip Running Time	3.1 hrs.		3.1 hrs.	
Annual Running Hours	2486 hrs.		2486 hrs.	

B. Driver Costs				
Load - unload time cost	\$ 1546		\$ 1546	
Distance wage	\$ 0		\$ 0	
Hourly wage	\$ 24856		\$ 24856	
Wage burden	\$ 6864		\$ 6864	

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km. \$	Total Cost \$	Cost per Running Hour \$	Cost per km. \$
Tractor variable costs					
33,266	13.38	41.6	33,266	13.38	41.6
14,117	5.68	17.6	14,117	5.68	17.6
12,247	4.93	15.3	12,247	4.93	15.3
645	0.26	0.8	645	0.26	0.8
489	0.20	0.6	489	0.20	0.6
3,943	1.59	4.9	3,943	1.59	4.9
64,707	26.04	80.8	64,707	26.04	80.8
Tractor fixed costs					
12,898	5.19	16.1	12,898	5.19	16.1
502	0.20	0.6	502	0.20	0.6
13,400	5.39	16.7	13,400	5.39	16.7
74,881	30.13	93.5	78,107	31.43	97.5
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
74,881	30.13	93.5	78,107	31.43	97.5
Total vehicle costs					
3,210	1.29	4.0	3,210	1.29	4.0
14,979	6.03	18.7	14,979	6.03	18.7
10,699	4.30	13.4	10,699	4.30	13.4
106,995	43.05	133.6	106,995	43.05	133.6
Total operating cost					

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	34,017 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	5,794 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

206.2 Total Operating Cost 215.0

Configuration -- 2 axle straight truck (gasoline)

Manitoba

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6570 kg.	6570 kg.
	Estimated Annual Quantity	7884 tonnes	7884 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2319	\$ 2319
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 37283	\$ 37283
	Wage burden	\$ 10297	\$ 10297

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
49,899	13.38	41.6	Driver	49,899	13.38	41.6
21,175	5.68	17.6	Fuel	21,175	5.68	17.6
15,309	4.11	12.8	Repairs	18,370	4.93	15.3
967	0.26	0.8	Cleaning	967	0.26	0.8
489	0.13	0.4	Transport	489	0.13	0.4
4,136	1.11	3.4	Tires	5,915	1.59	4.9
91,975	24.67	76.6	Total tractor variable	96,815	25.97	80.6
			Tractor fixed costs			
12,898	3.46	10.7	Depreciation	12,898	3.46	10.7
502	0.13	0.4	Licences	502	0.13	0.4
13,400	3.59	11.1	Total tractor fixed	13,400	3.59	11.1
105,375	28.26	87.7	Tractor total	110,215	29.56	91.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
105,375	28.26	87.7	Total vehicle costs	110,215	29.56	91.7
4,330	1.16	3.6	Insurance costs	4,529	1.21	3.8
20,209	5.42	16.8	Admin. and interest	21,137	5.67	17.6
14,435	3.87	12.0	Pickup and delivery	15,098	4.05	12.6
144,349	38.71	120.1	Profit	150,979	40.49	125.7
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	34,017 lbs.
	Average payload --	14,484 lbs.
	Estimated annual quantity --	8,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

193.3 Total Operating Cost 202.3

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	4388 tonnes	4388 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1857	\$ 1857
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 17884	\$ 17884
Wage burden	\$ 5133	\$ 5133

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
24,874	20.01	62.2	Tractor variable costs	24,874	20.01	62.2
7,868	6.33	19.7	Driver	7,868	6.33	19.7
6,894	5.55	17.2	Fuel	8,273	6.66	20.7
448	0.36	1.1	Repairs	448	0.36	1.1
489	0.39	1.2	Cleaning	489	0.39	1.2
1,591	1.28	4.0	Transport	2,275	1.83	5.7
42,164	33.92	105.4	Tires	44,227	35.58	110.6
			Total tractor variable			
12,971	10.44	32.4	Tractor fixed costs	12,971	10.44	32.4
764	0.61	1.9	Depreciation	764	0.61	1.9
13,735	11.05	34.3	Licences	13,735	11.05	34.3
			Total tractor fixed			
55,899	44.97	139.7	Tractor total	57,962	46.63	144.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
55,899	44.97	139.7	Total vehicle costs	57,962	46.63	144.9
2,297	1.85	5.7	Insurance costs	2,382	1.92	6.0
10,720	8.63	26.8	Admin. and interest	11,116	8.94	27.8
7,657	6.16	19.1	Pickup and delivery	7,940	6.39	19.9
76,573	61.61	191.3	Profit	79,400	63.88	198.6
			Total operating cost			

..... Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	24,184 lbs.
Estimated annual quantity --	4,837 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

307.9 Total Operating Cost 319.6

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Bulk

Annual distance -- 80000 km.

	Paved Road	Gravel Road
A. Vehicle Utilization		
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	8776 tonnes	8776 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3714	\$ 3714
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 35767	\$ 35767
Wage burden	\$ 10265	\$ 10265

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,746	20.01	62.2	Tractor variable costs	49,746	20.01	62.2
15,736	6.33	19.7	Driver	15,736	6.33	19.7
13,789	5.55	17.2	Fuel	16,546	6.66	20.7
896	0.36	1.1	Repairs	896	0.36	1.1
489	0.20	0.6	Cleaning	489	0.20	0.6
3,182	1.28	4.0	Transport	4,550	1.83	5.7
83,838	33.73	104.8	Tires	87,963	35.39	110.0
			Total tractor variable			
12,971	5.22	16.2	Tractor fixed costs	12,971	5.22	16.2
764	0.31	1.0	Depreciation	764	0.31	1.0
13,735	5.53	17.2	Licences	13,735	5.53	17.2
			Total tractor fixed			
97,573	39.26	122.0	Tractor total	101,698	40.92	127.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
97,573	39.26	122.0	Total vehicle costs	101,698	40.92	127.2
4,010	1.61	5.0	Insurance costs	4,179	1.68	5.2
18,712	7.53	23.4	Admin. and interest	19,504	7.85	24.4
			Pickup and delivery			
13,366	5.38	16.7	Profit	13,931	5.60	17.4
133,661	53.78	167.1	Total operating cost	139,312	56.05	174.2

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	24,184 lbs.
Estimated annual quantity --	9,674 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

268.9

Total Operating Cost 280.3

Configuration -- 2 axle straight truck (gasoline)

Ontario

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	13164 tonnes	13164 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5571	\$ 5571
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 53651	\$ 53651
Wage burden	\$ 15398	\$ 15398

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
74,620	20.01	62.2	Driver	74,620	20.01	62.2
23,604	6.33	19.7	Fuel	23,604	6.33	19.7
20,683	5.55	17.2	Repairs	24,819	6.66	20.7
1,344	0.36	1.1	Cleaning	1,344	0.36	1.1
489	0.13	0.4	Transport	489	0.13	0.4
4,773	1.28	4.0	Tires	6,825	1.83	5.7
125,513	33.66	104.6	Total tractor variable	131,701	35.32	109.8
			Tractor fixed costs			
12,971	3.48	10.8	Depreciation	12,971	3.48	10.8
764	0.20	0.6	Licences	764	0.20	0.6
13,735	3.68	11.4	Total tractor fixed	13,735	3.68	11.4
139,248	37.34	116.0	Tractor total	145,436	39.00	121.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
139,248	37.34	116.0	Total vehicle costs	145,436	39.00	121.2
5,722	1.53	4.8	Insurance costs	5,977	1.60	5.0
26,705	7.16	22.3	Admin. and interest	27,892	7.48	23.2
			Pickup and delivery			
19,075	5.12	15.9	Profit	19,923	5.34	16.6
190,750	51.15	159.0	Total operating cost	199,228	53.42	166.0

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* I m p e r i a l E q u i v a l e n t S u m m a r y *
*

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	41,887 lbs.
	Average payload --	24,184 lbs.
	Estimated annual quantity --	14,511 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

255.9

Total Operating Cost

267.1
*

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Bulk

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	18500 kg.	18500 kg.
	Average Payload	10470 kg.	10470 kg.
	Estimated Annual Quantity	4188 tonnes	4188 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 1572	\$ 1572
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 15858	\$ 15858
	Wage burden	\$ 5055	\$ 5055

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
22,485	18.09	56.2	Tractor variable costs	22,485	18.09	56.2
9,315	7.50	23.3	Driver	9,315	7.50	23.3
6,704	5.39	16.8	Fuel	8,045	6.47	20.1
358	0.29	0.9	Repairs	358	0.29	0.9
380	0.31	1.0	Cleaning	380	0.31	1.0
1,591	1.28	4.0	Transport	2,275	1.83	5.7
40,833	32.86	102.2	Tires	42,858	34.44	107.2
			Total tractor variable			
13,092	10.53	32.7	Tractor fixed costs	13,092	10.53	32.7
822	0.66	2.1	Depreciation	822	0.66	2.1
13,914	11.19	34.8	Licences	13,914	11.19	34.8
			Total tractor fixed			
54,747	44.05	137.0	Tractor total	56,772	45.68	142.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
54,747	44.05	137.0	Total vehicle costs	56,772	45.68	142.0
2,250	1.81	5.6	Insurance costs	2,333	1.88	5.8
10,499	8.45	26.2	Admin. and interest	10,888	8.76	27.2
7,500	6.03	18.8	Pickup and delivery	7,777	6.26	19.4
74,996	60.34	187.6	Profit	77,770	62.58	194.4
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	40,785 lbs.
	Average payload --	23,082 lbs.
	Estimated annual quantity --	4,616 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

301.9 Total Operating Cost 312.8

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	10470 kg.	10470 kg.
Estimated Annual Quantity	8376 tonnes	8376 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3143	\$ 3143
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 31716	\$ 31716
Wage burden	\$ 10109	\$ 10109

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
44,968	18.09	56.2	Tractor variable costs	44,968	18.09	56.2
18,630	7.50	23.3	Driver	18,630	7.50	23.3
13,409	5.39	16.8	Fuel	16,090	6.47	20.1
717	0.29	0.9	Repairs	717	0.29	0.9
380	0.15	0.5	Cleaning	380	0.15	0.5
3,182	1.28	4.0	Transport	4,550	1.83	5.7
81,286	32.70	101.7	Tires	85,335	34.33	106.7
			Total tractor variable			
13,092	5.27	16.4	Tractor fixed costs	13,092	5.27	16.4
822	0.33	1.0	Depreciation	822	0.33	1.0
13,914	5.60	17.4	Licences	13,914	5.60	17.4
			Total tractor fixed			
95,200	38.30	119.1	Tractor total	99,249	39.93	124.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
95,200	38.30	119.1	Total vehicle costs	99,249	39.93	124.1
3,912	1.57	4.9	Insurance costs	4,079	1.64	5.1
18,257	7.35	22.8	Admin. and interest	19,034	7.66	23.8
13,041	5.25	16.3	Pickup and delivery	13,596	5.47	17.0
130,410	52.47	163.1	Profit	135,958	54.70	170.0
			Total operating cost			

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 * Imperial Equivalent Summary *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 40,785 lbs.
 Average payload -- 23,082 lbs.
 Estimated annual quantity -- 9,233 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

262.5

Total Operating Cost

273.6

Configuration -- 2 axle straight truck (gasoline)

Quebec

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	10470 kg.	10470 kg.
Estimated Annual Quantity	12564 tonnes	12564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4715	\$ 4715
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 47573	\$ 47573
Wage burden	\$ 15164	\$ 15164

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
67,452	18.09	56.2	Driver	67,452	18.09	56.2
27,946	7.50	23.3	Fuel	27,946	7.50	23.3
20,113	5.39	16.8	Repairs	24,135	6.47	20.1
1,075	0.29	0.9	Cleaning	1,075	0.29	0.9
380	0.10	0.3	Transport	380	0.10	0.3
4,773	1.28	4.0	Tires	6,825	1.83	5.7
121,739	32.65	101.5	Total tractor variable	127,813	34.28	106.5
			Tractor fixed costs			
13,092	3.51	10.9	Depreciation	13,092	3.51	10.9
822	0.22	0.7	Licences	822	0.22	0.7
13,914	3.73	11.6	Total tractor fixed	13,914	3.73	11.6
135,653	36.38	113.1	Tractor total	141,727	38.01	118.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
135,653	36.38	113.1	Total vehicle costs	141,727	38.01	118.1
5,575	1.50	4.6	Insurance costs	5,824	1.56	4.9
26,015	6.98	21.7	Admin. and interest	27,180	7.29	22.7
10,582	4.98	15.5	Pickup and delivery	19,415	5.21	16.2
185,825	49.84	154.9	Profit	194,146	52.07	161.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	23,082 lbs.
Estimated annual quantity --	13,849 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
249.3	260.5
Total Operating Cost	

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 691	\$ 691
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13347	\$ 13347
Wage burden	\$ 2990	\$ 2990

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
17,028	13.70	42.6	Tractor variable costs	17,028	13.70	42.6
7,605	6.12	19.0	Driver	7,605	6.12	19.0
6,389	5.14	16.0	Fuel	7,667	6.17	19.2
328	0.26	0.8	Repairs	328	0.26	0.8
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
33,333	26.82	83.4	Tires	35,278	28.38	88.2
			Total tractor variable			
13,380	10.77	33.5	Tractor fixed costs	13,380	10.77	33.5
482	0.39	1.2	Depreciation	482	0.39	1.2
13,862	11.16	34.7	Licences	13,862	11.16	34.7
			Total tractor fixed			
47,195	37.98	118.1	Tractor total	49,140	39.54	122.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
47,195	37.98	118.1	Total vehicle costs	49,140	39.54	122.9
1,940	1.56	4.9	Insurance costs	2,019	1.62	5.0
9,051	7.28	22.6	Admin. and interest	9,424	7.58	23.6
6,465	5.20	16.2	Pickup and delivery	6,732	5.42	16.8
64,651	52.02	161.8	Profit	67,315	54.16	168.3
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled -- 24,856 mi.
 Gross vehicle weight -- 31,967 lbs.
 Average payload -- 12,059 lbs.
 Estimated annual quantity -- 2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

260.4 Total Operating Cost 270.8

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14500 kg.	14500 kg.
	Average Payload	5470 kg.	5470 kg.
	Estimated Annual Quantity	4376 tonnes	4376 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 1382	\$ 1382
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 26695	\$ 26695
	Wage burden	\$ 5980	\$ 5980

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
34,057	13.70	42.6	Driver	34,057	13.70	42.6
15,210	6.12	19.0	Fuel	15,210	6.12	19.0
12,779	5.14	16.0	Repairs	15,335	6.17	19.2
657	0.26	0.8	Cleaning	657	0.26	0.8
434	0.17	0.5	Transport	434	0.17	0.5
3,099	1.25	3.9	Tires	4,431	1.78	5.5
66,236	26.64	82.8	Total tractor variable	70,124	28.20	87.6
			Tractor fixed costs			
13,380	5.38	16.7	Depreciation	13,380	5.38	16.7
482	0.19	0.6	Licences	482	0.19	0.6
13,862	5.57	17.3	Total tractor fixed	13,862	5.57	17.3
80,098	32.21	100.1	Tractor total	83,986	33.77	104.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
80,098	32.21	100.1	Total vehicle costs	83,986	33.77	104.9
3,292	1.32	4.1	Insurance costs	3,451	1.39	4.3
15,361	6.18	19.2	Admin. and interest	16,107	6.48	20.1
10,972	4.41	13.7	Pickup and delivery			
109,723	44.12	137.1	Profit	11,505	4.63	14.4
			Total operating cost	115,049	46.27	143.7

***** Imperial Equivalent Summary *****			
A.	Annual distance travelled --	49,712 mi.	
	Gross vehicle weight --	31,967 lbs.	
	Average payload --	12,059 lbs.	
	Estimated annual quantity --	4,824 tons	
B.	Total Operating Cost per mile (cents/mile)		
	Paved roads	Gravel roads	
	220.6	Total Operating Cost	231.3

Configuration -- 2 axle straight truck (gasoline)

New Brunswick

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	6564 tonnes	6564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2073	\$ 2073
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 40042	\$ 40042
Wage burden	\$ 8971	\$ 8971

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,086	13.70	42.6	Tractor variable costs	51,086	13.70	42.6
22,814	6.12	19.0	Driver	22,814	6.12	19.0
19,168	5.14	16.0	Fuel	23,002	6.17	19.2
985	0.26	0.8	Repairs	985	0.26	0.8
434	0.12	0.4	Cleaning	434	0.12	0.4
4,648	1.25	3.9	Transport	6,647	1.78	5.5
99,135	26.59	82.7	Tires	104,968	28.15	87.5
			Total tractor variable			
13,380	3.59	11.2	Tractor fixed costs	13,380	3.59	11.2
482	0.13	0.4	Depreciation	482	0.13	0.4
13,862	3.72	11.6	Licences	13,862	3.72	11.6
			Total tractor fixed			
112,997	30.31	94.3	Tractor total	118,830	31.87	99.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
112,997	30.31	94.3	Total vehicle costs	118,830	31.87	99.1
4,644	1.25	3.9	Insurance costs	4,883	1.31	4.1
21,671	5.81	18.1	Admin. and interest	22,789	6.11	19.0
			Pickup and delivery			
15,479	4.15	12.9	Profit	16,278	4.37	13.6
154,791	41.52	129.2	Total operating cost	162,780	43.66	135.8

* Imperial Equivalent Summary *

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	7,235 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

207.9 Total Operating Cost 218.5

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 691	\$ 691
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13347	\$ 13347
Wage burden	\$ 2990	\$ 2990

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
17,028	13.70	42.6	Tractor variable costs	17,028	13.70	42.6
7,605	6.12	19.0	Driver	7,605	6.12	19.0
6,389	5.14	16.0	Fuel	7,667	6.17	19.2
328	0.26	0.8	Repairs	328	0.26	0.8
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
33,333	26.82	83.4	Tires	35,278	28.38	88.2
			Total tractor variable			
13,260	10.67	33.2	Tractor fixed costs	13,260	10.67	33.2
481	0.39	1.2	Depreciation	481	0.39	1.2
13,741	11.06	34.4	Licences	13,741	11.06	34.4
			Total tractor fixed			
47,074	37.88	117.8	Tractor total	49,019	39.44	122.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
47,074	37.88	117.8	Total vehicle costs	49,019	39.44	122.6
1,935	1.56	4.8	Insurance costs	2,014	1.62	5.0
9,028	7.26	22.6	Admin. and interest	9,401	7.56	23.5
6,449	5.19	16.1	Pickup and delivery	6,715	5.40	16.8
64,486	51.89	161.3	Profit	67,149	54.02	167.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

259.6

Total Operating Cost

270.2

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	4376 tonnes	4376 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.
B. Driver Costs		
Load - unload time cost	\$ 1382	\$ 1382
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 26695	\$ 26695
Wage burden	\$ 5980	\$ 5980

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
34,057	13.70	42.6	Tractor variable costs	34,057	13.70	42.6
15,210	6.12	19.0	Driver	15,210	6.12	19.0
12,779	5.14	16.0	Fuel	15,335	6.17	19.2
657	0.26	0.8	Repairs	657	0.26	0.8
434	0.17	0.5	Cleaning	434	0.17	0.5
3,099	1.25	3.9	Transport	4,431	1.70	5.5
66,236	26.64	82.8	Tires	70,124	28.20	87.6
			Total tractor variable			
13,260	5.33	16.6	Tractor fixed costs	13,260	5.33	16.6
481	0.19	0.6	Depreciation	481	0.19	0.6
13,741	5.52	17.2	Licences	13,741	5.52	17.2
			Total tractor fixed			
79,977	32.16	100.0	Tractor total	83,865	33.72	104.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
79,977	32.16	100.0	Total vehicle costs	83,865	33.72	104.8
3,287	1.32	4.1	Insurance costs	3,446	1.39	4.3
15,338	6.17	19.2	Admin. and interest	16,084	6.47	20.1
10,956	4.41	13.7	Pickup and delivery	11,488	4.62	14.4
109,558	44.06	137.0	Profit	114,883	46.20	143.6
			Total operating cost			

..... Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	4,824 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

220.5 Total Operating Cost 231.1

Configuration -- 2 axle straight truck (gasoline)

Nova Scotia

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Gross Vehicle Weight	Paved Road	Gravel Road
	Average Payload	14500 kg.	14500 kg.
	Estimated Annual Quantity	5470 kg.	5470 kg.
	Trip Running Time	6564 tonnes	6564 tonnes
	Annual Running Hours	3.1 hrs.	3.1 hrs.
B. Driver Costs	Load - unload time cost	3728 hrs.	3728 hrs.
	Distance wage	\$ 2073	\$ 2073
	Hourly wage	\$ 0	\$ 0
	Wage burden	\$ 40042	\$ 40042
		\$ 8971	\$ 8971

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
51,086	13.70	42.6	51,086	13.70	42.6
22,814	6.12	19.0	22,814	6.12	19.0
19,168	5.14	16.0	23,002	6.17	19.2
985	0.26	0.8	985	0.26	0.8
434	0.12	0.4	434	0.12	0.4
4,648	1.25	3.9	6,647	1.78	5.5
99,135	26.59	82.7	104,968	28.15	87.5
Tractor fixed costs					
13,260	3.56	11.1	13,260	3.56	11.1
481	0.13	0.4	481	0.13	0.4
13,741	3.69	11.5	13,741	3.69	11.5
112,876	30.28	94.2	118,709	31.84	99.0
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
112,876	30.28	94.2	118,709	31.84	99.0
4,639	1.24	3.9	4,878	1.31	4.1
21,648	5.81	18.0	22,766	6.11	19.0
15,463	4.15	12.9	16,262	4.36	13.6
154,626	41.48	129.0	162,615	43.62	135.7

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	7,235 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

207.6 Total Operating Cost 218.4

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 568	\$ 568
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 10974	\$ 10974
Wage burden	\$ 2458	\$ 2458

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
14,000	11.27	35.0	Tractor variable costs	14,000	11.27	35.0
7,156	5.76	17.9	Driver	7,156	5.76	17.9
6,389	5.14	16.8	Fuel	7,667	6.17	19.2
328	0.26	0.8	Repairs	328	0.26	0.8
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
29,856	24.03	74.7	Tires	31,801	25.59	79.5
			Total tractor variable			
13,260	10.67	33.2	Tractor fixed costs	13,260	10.67	33.2
395	0.32	1.0	Depreciation	395	0.32	1.0
13,655	10.99	34.2	Licences	13,655	10.99	34.2
			Total tractor fixed			
43,511	35.02	108.9	Tractor total	45,456	36.58	113.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
43,511	35.02	108.9	Total vehicle costs	45,456	36.58	113.7
1,788	1.44	4.5	Insurance costs	1,868	1.50	4.7
0,345	0.28	0.9	Admin. and interest	8,718	7.01	21.8
5,961	4.80	14.9	Pickup and delivery	6,227	5.01	15.6
59,605	47.97	149.2	Profit	62,269	50.10	155.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
Gross vehicle weight -- 31,967 lbs.
Average payload -- 12,059 lbs.
Estimated annual quantity -- 2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

240.1

Total Operating Cost 250.7

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		14500 kg.	14500 kg.
Average Payload		5470 kg.	5470 kg.
Estimated Annual Quantity		4376 tonnes	4376 tonnes
Trip Running Time		3.1 hrs.	3.1 hrs.
Annual Running Hours		2486 hrs.	2486 hrs.
B. Driver Costs			
Load - unload time cost		\$ 1136	\$ 1136
Distance wage		\$ 0	\$ 0
Hourly wage		\$ 21947	\$ 21947
Wage burden		\$ 4917	\$ 4917

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
28,000	11.27	35.0	Tractor variable costs	28,000	11.27	35.0
14,312	5.76	17.9	Driver	14,312	5.76	17.9
12,779	5.14	16.0	Fuel	15,335	6.17	19.2
657	0.26	0.8	Repairs	657	0.26	0.8
434	0.17	0.5	Cleaning	434	0.17	0.5
3,099	1.25	3.9	Transport	4,431	1.78	5.5
59,281	23.85	74.1	Tires	63,169	25.41	78.9
			Total tractor variable			
13,260	5.33	16.6	Tractor fixed costs	13,260	5.33	16.6
395	0.16	0.5	Depreciation	395	0.16	0.5
13,655	5.49	17.1	Licences	13,655	5.49	17.1
			Total tractor fixed			
72,936	29.34	91.2	Tractor total	76,824	30.90	96.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
72,936	29.34	91.2	Total vehicle costs	76,824	30.90	96.0
2,997	1.21	3.7	Insurance costs	3,157	1.27	3.9
13,988	5.63	17.5	Admin. and interest	14,733	5.93	18.4
9,991	4.02	12.5	Pickup and delivery	10,524	4.23	13.2
99,912	40.20	124.9	Profit	105,238	42.33	131.5
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	4,824 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

201.0 Total Operating Cost 211.6

Configuration -- 2 axle straight truck (gasoline)

P.E.I.

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	6564 tonnes	6564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1705	\$ 1705
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 32921	\$ 32921
Wage burden	\$ 7375	\$ 7375

C. Total Operating Costs

P a v e d R o a d s				G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
42,001	11.27	35.0	Tractor variable costs	42,001	11.27	35.0
21,468	5.76	17.9	Driver	21,468	5.76	17.9
19,168	5.14	16.0	Fuel	23,002	6.17	19.2
985	0.26	0.8	Repairs	985	0.26	0.8
434	0.12	0.4	Cleaning	434	0.12	0.4
4,648	1.25	3.9	Transport	6,647	1.78	5.5
88,704	23.80	74.0	Tires	94,537	25.36	78.8
			Total tractor variable			
			Tractor fixed costs			
13,260	3.56	11.1	Depreciation	13,260	3.56	11.1
395	0.11	0.3	Licences	395	0.11	0.3
13,655	3.67	11.4	Total tractor fixed	13,655	3.67	11.4
102,359	27.47	85.4	Tractor total	108,192	29.03	90.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
102,359	27.47	85.4	Total vehicle costs	108,192	29.03	90.2
4,207	1.13	3.5	Insurance costs	4,446	1.19	3.7
19,631	5.27	16.4	Admin. and interest	20,749	5.57	17.3
14,022	3.76	11.7	Pickup and delivery	14,821	3.98	12.4
140,219	37.63	117.0	Profit	140,208	39.77	123.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled -- 74,568 mi.
 Gross vehicle weight -- 31,967 lbs.
 Average payload -- 12,059 lbs.
 Estimated annual quantity -- 7,235 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s	G r a v e l r o a d s
188.3	Total Operating Cost 198.9

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14969 kg.	14969 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 732	\$ 732
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 14130	\$ 14130
Wage burden	\$ 3166	\$ 3166

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
18,028	14.51	45.1	Tractor variable costs	18,028	14.51	45.1
8,023	6.46	20.1	Driver	8,023	6.46	20.1
7,166	5.77	17.9	Fuel	8,599	6.92	21.5
478	0.38	1.2	Repairs	478	0.38	1.2
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
35,678	28.72	89.3	Tires	37,778	30.40	94.5
			Total tractor variable			
13,501	10.86	33.8	Tractor fixed costs	13,501	10.86	33.8
440	0.35	1.1	Depreciation	440	0.35	1.1
13,941	11.21	34.9	Licences	13,941	11.21	34.9
			Total tractor fixed			
49,619	39.93	124.2	Tractor total	51,719	41.61	129.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
49,619	39.93	124.2	Total vehicle costs	51,719	41.61	129.4
2,039	1.64	5.1	Insurance costs	2,125	1.71	5.3
9,516	7.66	23.8	Admin. and interest	9,919	7.98	24.8
			Pickup and delivery			
6,797	5.47	17.0	Profit	7,085	5.70	17.7
67,971	54.70	170.1	Total operating cost	70,840	57.00	177.2

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,001 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

273.7

Total Operating Cost

285.2

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road
 14969 kg.
 5470 kg.
 4376 tonnes
 3.1 hrs.
 2486 hrs.

Gravel Road
 14969 kg.
 5470 kg.
 4376 tonnes
 3.1 hrs.
 2486 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 1463
 \$ 0
 \$ 28261
 \$ 6331

\$ 1463
 \$ 0
 \$ 28261
 \$ 6331

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
36,055	14.51	45.1	Tractor variable costs	36,055	14.51	45.1
16,045	6.46	20.1	Driver	16,045	6.46	20.1
14,331	5.77	17.9	Fuel	17,198	6.92	21.5
955	0.38	1.2	Repairs	955	0.38	1.2
434	0.17	0.5	Cleaning	434	0.17	0.5
3,099	1.25	3.9	Transport	4,431	1.78	5.5
70,919	28.54	88.7	Tires	75,118	30.22	93.9
			Total tractor variable			
13,501	5.43	16.9	Tractor fixed costs	13,501	5.43	16.9
440	0.18	0.6	Depreciation	440	0.18	0.6
13,941	5.61	17.5	Licences	13,941	5.61	17.5
			Total tractor fixed			
84,860	34.15	106.2	Tractor total	89,059	35.83	111.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
84,860	34.15	106.2	Total vehicle costs	89,059	35.83	111.4
3,487	1.40	4.4	Insurance costs	3,660	1.47	4.6
16,275	6.55	20.3	Admin. and interest	17,080	6.87	21.4
11,625	4.68	14.5	Pickup and delivery	12,200	4.91	15.3
116,247	46.78	145.4	Profit	121,999	49.08	152.7
			Total operating cost			

 * Imperial Equivalent Summary *
 *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 33,001 lbs.
 Average payload -- 12,059 lbs.
 Estimated annual quantity -- 4,824 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

234.0

Total Operating Cost 245.7

Configuration -- 2 axle straight truck (gasoline)

Newfoundland

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.	14969 kg.
	Average Payload	5470 kg.	5470 kg.
	Estimated Annual Quantity	6564 tonnes	6564 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 2195	\$ 2195
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 42391	\$ 42391
	Wage burden	\$ 9497	\$ 9497

C. Total Operating Costs

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
54,083	14.51	45.1	54,083	14.51	45.1
24,068	6.46	20.1	24,068	6.46	20.1
21,497	5.77	17.9	25,796	6.92	21.5
1,433	0.38	1.2	1,433	0.38	1.2
434	0.12	0.4	434	0.12	0.4
4,648	1.25	3.9	6,647	1.78	5.5
106,163	28.49	88.6	112,461	30.17	93.8
Tractor fixed costs					
13,501	3.62	11.3	13,501	3.62	11.3
440	0.12	0.4	440	0.12	0.4
13,941	3.74	11.7	13,941	3.74	11.7
120,104	32.23	100.3	126,402	33.91	105.5
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
120,104	32.23	100.3	126,402	33.91	105.5
Total vehicle costs					
4,936	1.32	4.1	5,195	1.39	4.3
23,034	6.18	19.2	24,242	6.50	20.2
16,453	4.41	13.7	17,315	4.64	14.4
164,527	44.14	137.3	173,154	46.44	144.4
Total operating cost					

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	33,001 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	7,235 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

221.0 Total Operating Cost 232.4

Configuration -- 2 axle straight truck (gasoline)

N.W.T.

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	3970 kg.	3970 kg.
Estimated Annual Quantity	1588 tonnes	1588 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 490	\$ 490
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13049	\$ 13049
Wage burden	\$ 3453	\$ 3453

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
16,992	13.67	42.5	Tractor variable costs	16,992	13.67	42.5
7,995	6.43	20.0	Driver	7,995	6.43	20.0
6,053	4.87	15.1	Fuel	7,263	5.84	18.2
478	0.38	1.2	Repairs	478	0.38	1.2
814	0.65	2.0	Cleaning	814	0.65	2.0
1,883	1.52	4.7	Transport	2,693	2.17	6.7
34,215	27.52	85.5	Tires	36,235	29.14	90.6
			Total tractor variable			
12,054	9.70	30.1	Tractor fixed costs	12,054	9.70	30.1
320	0.26	0.8	Depreciation	320	0.26	0.8
12,374	9.96	30.9	Licences	12,374	9.96	30.9
			Total tractor fixed			
46,589	37.48	116.4	Tractor total	48,609	39.10	121.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
46,589	37.48	116.4	Total vehicle costs	48,609	39.10	121.5
1,915	1.54	4.8	Insurance costs	1,998	1.61	5.0
8,935	7.19	22.3	Admin. and interest	9,322	7.50	23.3
6,382	5.14	16.0	Pickup and delivery	6,659	5.36	16.6
63,821	51.35	159.5	Profit	66,588	53.57	166.4
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
 Gross vehicle weight -- 33,069 lbs.
 Average payload -- 8,752 lbs.
 Estimated annual quantity -- 1,750 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

256.7 Total Operating Cost 267.8

N.W.T.

Annual distance -- 80000 km.

B.	Driver Costs		
	Load - unload time cost	\$ 981	\$ 981
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 26098	\$ 26098
	Wage burden	\$ 6905	\$ 6905

Gravel Roads

```

*****
Imperial Equivalent Summary
*****
A.   Annual distance travelled --      49,712  mi.
      Gross vehicle weight      --      33,069  lbs.
      Average payload           --       8,752  lbs.
      Estimated annual quantity --       3,501  tons
*****
B.   Total Operating Cost per mile (cents/mile)
*****
      Paved roads                Gravel roads
*****
      220.5      Total Operating Cost      231.6
*****

```

Configuration -- 2 axle straight truck (gasoline)

N.W.T.

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	3970 kg.	3970 kg.
Estimated Annual Quantity	4764 tonnes	4764 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.
B. Driver Costs		
Load - unload time cost	\$ 1471	\$ 1471
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 39147	\$ 39147
Wage burden	\$ 10358	\$ 10358

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
50,976	13.67	42.5	Driver	50,976	13.67	42.5
23,986	6.43	20.0	Fuel	23,986	6.43	20.0
18,159	4.87	15.1	Repairs	21,790	5.84	18.2
1,433	0.38	1.2	Cleaning	1,433	0.38	1.2
814	0.22	0.7	Transport	814	0.22	0.7
5,649	1.52	4.7	Tires	8,078	2.17	6.7
101,017	27.09	84.2	Total tractor variable	107,077	28.71	89.3
			Tractor fixed costs			
12,054	3.23	10.0	Depreciation	12,054	3.23	10.0
320	0.09	0.3	Licences	320	0.09	0.3
12,374	3.32	10.3	Total tractor fixed	12,374	3.32	10.3
113,391	30.41	94.5	Tractor total	119,451	32.03	99.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
113,391	30.41	94.5	Total vehicle costs	119,451	32.03	99.6
4,660	1.25	3.9	Insurance costs	4,909	1.32	4.1
21,746	5.83	18.1	Admin. and interest	22,909	6.14	19.1
15,533	4.17	12.9	Pickup and delivery			
			Profit	16,363	4.39	13.6
155,330	41.66	129.4	Total operating cost	163,632	43.88	136.4

***** Imperial Equivalent Summary *****			
A.	Annual distance travelled --	74,568 mi.	
	Gross vehicle weight --	33,069 lbs.	
	Average payload --	8,752 lbs.	
	Estimated annual quantity --	5,251 tons	
B.	Total Operating Cost per mile (cents/mile)		
	P a v e d r o a d s	G r a v e l r o a d s	
	208.2	Total Operating Cost	219.5

Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Bulk

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15000 kg.	15000 kg.
	Average Payload	6970 kg.	6970 kg.
	Estimated Annual Quantity	2788 tonnes	2788 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 1003	\$ 1003
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 15199	\$ 15199
	Wage burden	\$ 3645	\$ 3645

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
19,847	15.97	49.6	Tractor variable costs	19,847	15.97	49.6
7,831	6.30	19.6	Driver	7,831	6.30	19.6
6,514	5.24	16.3	Fuel	7,817	6.29	19.5
448	0.36	1.1	Repairs	448	0.36	1.1
760	0.61	1.9	Cleaning	760	0.61	1.9
1,883	1.52	4.7	Transport	2,693	2.17	6.7
37,283	30.00	93.2	Tires	39,396	31.70	98.4
			Total tractor variable			
12,054	9.70	30.1	Tractor fixed costs	12,054	9.70	30.1
400	0.32	1.0	Depreciation	400	0.32	1.0
12,454	10.02	31.1	Licences	12,454	10.02	31.1
			Total tractor fixed			
49,737	40.02	124.3	Tractor total	51,850	41.72	129.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
49,737	40.02	124.3	Total vehicle costs	51,850	41.72	129.5
2,044	1.64	5.1	Insurance costs	2,131	1.71	5.3
9,539	7.68	23.8	Admin. and interest	9,944	8.00	24.9
6,813	5.48	17.0	Pickup and delivery	7,103	5.72	17.8
68,133	54.82	170.2	Profit	71,028	57.15	177.5
			Total operating cost			

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 24,856 mi. *

* Gross vehicle weight -- 33,069 lbs. *

* Average payload -- 15,366 lbs. *

* Estimated annual quantity -- 3,073 tons *

* B. Total Operating Cost per mile (cents/mile) *

* Paved roads Gravel roads *

* 273.9 Total Operating Cost 285.7 *

Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	6970 kg.	6970 kg.
Estimated Annual Quantity	5576 tonnes	5576 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2006	\$ 2006
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 30398	\$ 30398
Wage burden	\$ 7291	\$ 7291

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
39,695	15.97	49.6	Tractor variable costs	39,695	15.97	49.6
15,662	6.30	19.6	Driver	15,662	6.30	19.6
13,029	5.24	16.3	Fuel	15,634	6.29	19.5
896	0.36	1.1	Repairs	896	0.36	1.1
760	0.31	1.0	Cleaning	760	0.31	1.0
3,766	1.52	4.7	Transport	5,385	2.17	6.7
73,808	29.70	92.3	Tires	78,032	31.40	97.5
			Total tractor variable			
12,054	4.85	15.1	Tractor fixed costs	12,054	4.85	15.1
400	0.16	0.5	Depreciation	400	0.16	0.5
12,454	5.01	15.6	Licences	12,454	5.01	15.6
			Total tractor fixed			
86,262	34.71	107.9	Tractor total	90,486	36.41	113.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
86,262	34.71	107.9	Total vehicle costs	90,486	36.41	113.1
3,545	1.43	4.4	Insurance costs	3,719	1.50	4.6
16,543	6.66	20.7	Admin. and interest	17,354	6.98	21.7
			Pickup and delivery			
11,817	4.75	14.8	Profit	12,395	4.99	15.5
118,167	47.55	147.8	Total operating cost	123,954	49.88	154.9

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	33,069 lbs.
	Average payload --	15,366 lbs.
	Estimated annual quantity --	6,146 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

237.9 Total Operating Cost 249.3

Configuration -- 2 axle straight truck (gasoline)

Yukon

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	6970 kg.	6970 kg.
Estimated Annual Quantity	8364 tonnes	8364 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3009	\$ 3009
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 45597	\$ 45597
Wage burden	\$ 10936	\$ 10936

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
59,542	15.97	49.6	Tractor variable costs	59,542	15.97	49.6
23,494	6.30	19.6	Driver	23,494	6.30	19.6
19,543	5.24	16.3	Fuel	23,451	6.29	19.5
1,344	0.36	1.1	Repairs	1,344	0.36	1.1
760	0.20	0.6	Cleaning	760	0.20	0.6
5,649	1.52	4.7	Transport	8,078	2.17	6.7
110,332	29.59	91.9	Tires	116,669	31.29	97.1
			Total tractor variable			
12,054	3.23	10.0	Tractor fixed costs	12,054	3.23	10.0
400	0.11	0.3	Depreciation	12,400	0.11	0.3
12,454	3.34	10.3	Licences	12,454	3.34	10.3
			Total tractor fixed			
122,786	32.93	102.2	Tractor total	129,123	34.63	107.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
122,786	32.93	102.2	Total vehicle costs	129,123	34.63	107.4
5,046	1.35	4.2	Insurance costs	5,306	1.42	4.4
23,548	6.32	19.6	Admin. and interest	24,763	6.64	20.6
16,820	4.51	14.0	Pickup and delivery	17,688	4.74	14.7
168,200	45.11	140.0	Profit	176,880	47.43	147.1
			Total operating cost			

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Imperial Equivalent Summary
.....

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	15,366 lbs.
Estimated annual quantity --	9,220 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

225.3

Total Operating Cost

236.7
.....

2 AXLE TRUCK

DIESEL

BULK



Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		14600 kg.	14600 kg.
Average Payload		6570 kg.	6570 kg.
Estimated Annual Quantity		2628 tonnes	2628 tonnes
Trip Running Time		3.1 hrs.	3.1 hrs.
Annual Running Hours		1243 hrs.	1243 hrs.
B. Driver Costs			
Load - unload time cost		\$ 1084	\$ 1084
Distance wage		\$ 0	\$ 0
Hourly wage		\$ 17424	\$ 17424
Wage burden		\$ 4516	\$ 4516

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
23,024	18.53	57.6	Tractor variable costs	23,024	18.53	57.6
4,739	3.81	11.8	Driver	4,739	3.81	11.8
6,124	4.93	15.3	Fuel	7,349	5.91	18.4
208	0.17	0.5	Repairs	208	0.17	0.5
469	0.38	1.2	Cleaning	469	0.38	1.2
1,719	1.38	4.3	Transport	2,459	1.98	6.1
36,283	29.20	90.7	Tires	38,248	30.78	95.6
			Total tractor variable			
13,624	10.96	34.1	Tractor fixed costs	13,624	10.96	34.1
426	0.34	1.1	Depreciation	426	0.34	1.1
14,050	11.30	35.2	Licences	14,050	11.30	35.2
			Total tractor fixed			
50,333	40.50	125.9	Tractor total	52,298	42.08	130.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
50,333	40.50	125.9	Total vehicle costs	52,298	42.08	130.8
2,068	1.66	5.2	Insurance costs	2,149	1.73	5.4
9,653	7.77	24.1	Admin. and interest	10,030	8.07	25.1
6,895	5.55	17.2	Pickup and delivery	7,164	5.76	17.9
68,949	55.48	172.4	Profit	71,641	57.64	179.2
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	2,897 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

277.4

Total Operating Cost 288.4

Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	5256 tonnes	5256 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2167	\$ 2167
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 34847	\$ 34847
Wage burden	\$ 9032	\$ 9032

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
46,046	18.53	57.6	Driver	46,046	18.53	57.6
9,479	3.81	11.8	Fuel	9,479	3.81	11.8
12,248	4.93	15.3	Repairs	14,698	5.91	18.4
416	0.17	0.5	Cleaning	416	0.17	0.5
469	0.19	0.6	Transport	469	0.19	0.6
3,439	1.38	4.3	Tires	4,917	1.98	6.1
72,097	29.01	90.1	Total tractor variable	76,025	30.59	95.0
			Tractor fixed costs			
13,624	5.48	17.0	Depreciation	13,624	5.48	17.0
426	0.17	0.5	Licences	426	0.17	0.5
14,050	5.65	17.5	Total tractor fixed	14,050	5.65	17.5
86,147	34.66	107.6	Tractor total	90,075	36.24	112.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
86,147	34.66	107.6	Total vehicle costs	90,075	36.24	112.5
3,540	1.42	4.4	Insurance costs	3,702	1.49	4.6
16,521	6.65	20.7	Admin. and interest	17,275	6.95	21.6
11,801	4.75	14.8	Pickup and delivery			
118,009	47.48	147.5	Profit	12,339	4.96	15.4
			Total operating cost	123,391	49.64	154.1

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	5,794 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

237.4

Total Operating Cost 248.0

Configuration -- 2 axle straight truck (diesel)

British Columbia

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	7884 tonnes	7884 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3251	\$ 3251
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 52271	\$ 52271
Wage burden	\$ 13547	\$ 13547

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
69,069	18.53	57.6	Tractor variable costs	69,069	18.53	57.6
14,218	3.81	11.8	Driver	14,218	3.81	11.8
18,373	4.93	15.3	Fuel	22,047	5.91	18.4
623	0.17	0.5	Repairs	623	0.17	0.5
469	0.13	0.4	Cleaning	469	0.13	0.4
5,158	1.38	4.3	Transport	7,376	1.98	6.1
107,910	28.95	89.9	Tires	113,802	30.53	94.8
			Total tractor variable			
13,624	3.65	11.4	Tractor fixed costs	13,624	3.65	11.4
426	0.11	0.4	Depreciation	426	0.11	0.4
14,050	3.76	11.8	Licences	14,050	3.76	11.8
			Total tractor fixed			
121,960	32.71	101.7	Tractor total	127,852	34.29	106.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
121,960	32.71	101.7	Total vehicle costs	127,852	34.29	106.6
5,012	1.34	4.2	Insurance costs	5,254	1.41	4.4
23,390	6.27	19.5	Admin. and interest	24,520	6.58	20.4
16,707	4.48	13.9	Pickup and delivery	17,514	4.70	14.6
167,069	44.80	139.3	Profit	175,140	46.98	146.0
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	8,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

224.2

Total Operating Cost

235.0

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	8370 kg.	8370 kg.
Estimated Annual Quantity	3348 tonnes	3348 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1174	\$ 1174
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 14814	\$ 14814
Wage burden	\$ 4141	\$ 4141

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
20,129	16.20	50.3	Tractor variable costs	20,129	16.20	50.3
3,847	3.10	9.6	Driver	3,847	3.10	9.6
5,619	4.52	14.0	Fuel	6,742	5.42	16.9
239	0.19	0.6	Repairs	239	0.19	0.6
326	0.26	0.8	Cleaning	326	0.26	0.8
1,627	1.31	4.1	Transport	2,326	1.87	5.8
31,787	25.58	79.4	Tires	33,609	27.04	84.0
			Total tractor variable			
12,853	10.34	32.1	Tractor fixed costs	12,853	10.34	32.1
458	0.37	1.1	Depreciation	458	0.37	1.1
13,311	10.71	33.2	Licences	13,311	10.71	33.2
			Total tractor fixed			
45,098	36.29	112.6	Tractor total	46,920	37.75	117.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
45,098	36.29	112.6	Total vehicle costs	46,920	37.75	117.2
1,853	1.49	4.6	Insurance costs	1,928	1.55	4.8
8,649	6.96	21.6	Admin. and interest	8,998	7.24	22.5
6,178	4.97	15.4	Pickup and delivery	6,427	5.17	16.1
61,778	49.71	154.2	Profit	64,273	51.71	160.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	18,453 lbs.
Estimated annual quantity --	3,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

248.2

Total Operating Cost

258.5

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	16400 kg.	16400 kg.
Average Payload	8370 kg.	8370 kg.
Estimated Annual Quantity	6696 tonnes	6696 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2348	\$ 2348
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 29628	\$ 29628
Wage burden	\$ 8282	\$ 8282

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
40,258	16.20	50.3	Tractor variable costs	40,258	16.20	50.3
7,694	3.10	9.6	Driver	7,694	3.10	9.6
11,237	4.52	14.0	Fuel	13,485	5.43	16.9
478	0.19	0.6	Repairs	478	0.19	0.6
326	0.13	0.4	Cleaning	326	0.13	0.4
3,254	1.31	4.1	Transport	4,653	1.87	5.8
63,247	25.45	79.0	Tires	66,894	26.92	83.6
			Total tractor variable			
12,853	5.17	16.1	Tractor fixed costs	12,853	5.17	16.1
458	0.18	0.6	Depreciation	458	0.18	0.6
13,311	5.35	16.7	Licences	13,311	5.35	16.7
			Total tractor fixed			
76,558	30.80	95.7	Tractor total	80,205	32.27	100.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
76,558	30.80	95.7	Total vehicle costs	80,205	32.27	100.3
3,146	1.27	3.9	Insurance costs	3,296	1.33	4.1
14,682	5.91	18.4	Admin. and interest	15,381	6.19	19.2
10,487	4.22	13.1	Pickup and delivery	10,987	4.42	13.7
104,873	42.20	131.1	Profit	109,869	44.21	137.3
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	36,155 lbs.
Average payload --	18,453 lbs.
Estimated annual quantity --	7,381 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

211.0

Total Operating Cost 221.0

Configuration -- 2 axle straight truck (diesel)

Alberta

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	16400 kg.	16400 kg.
	Average Payload	8370 kg.	8370 kg.
	Estimated Annual Quantity	10044 tonnes	10044 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 3521	\$ 3521
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 44442	\$ 44442
	Wage burden	\$ 12422	\$ 12422

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
60,385	16.20	50.3	Tractor variable costs	60,385	16.20	50.3
11,541	3.10	9.6	Driver	11,541	3.10	9.6
16,856	4.52	14.0	Fuel	20,227	5.43	16.9
717	0.19	0.6	Repairs	717	0.19	0.6
326	0.09	0.3	Cleaning	326	0.09	0.3
4,881	1.31	4.1	Transport	6,979	1.87	5.8
94,706	25.41	78.9	Tires	100,175	26.88	83.5
			Total tractor variable			
12,853	3.45	10.7	Tractor fixed costs	12,853	3.45	10.7
458	0.12	0.4	Depreciation	458	0.12	0.4
13,311	3.57	11.1	Licences	13,311	3.57	11.1
			Total tractor fixed			
108,017	28.98	90.0	Tractor total	113,486	30.45	94.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
108,017	28.98	90.0	Total vehicle costs	113,486	30.45	94.6
4,439	1.19	3.7	Insurance costs	4,664	1.25	3.9
20,715	5.56	17.3	Admin. and interest	21,764	5.84	18.1
14,797	3.97	12.3	Pickup and delivery	15,546	4.17	13.0
147,968	39.70	123.3	Profit	155,460	41.71	129.6
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	36,155 lbs.
	Average payload --	18,453 lbs.
	Estimated annual quantity --	11,072 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

198.4 Total Operating Cost 208.6

Configuration -- 2 axle straight truck (diesel)

Saskatchewan

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	2628 tonnes	2628 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 773	\$ 773
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 12428	\$ 12428
Wage burden	\$ 3261	\$ 3261

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
16,462	13.25	41.2	Tractor variable costs	16,462	13.25	41.2
4,368	3.51	10.9	Driver	4,368	3.51	10.9
4,207	3.39	10.5	Fuel	5,049	4.06	12.6
411	0.33	1.0	Repairs	411	0.33	1.0
434	0.35	1.1	Cleaning	434	0.35	1.1
1,614	1.30	4.0	Transport	2,308	1.86	5.8
27,496	22.13	68.7	Tires	29,032	23.36	72.6
			Total tractor variable			
			Tractor fixed costs			
13,752	11.07	34.4	Depreciation	13,752	11.07	34.4
674	0.54	1.7	Licences	674	0.54	1.7
14,426	11.61	36.1	Total tractor fixed	14,426	11.61	36.1
41,922	33.74	104.8	Tractor total	43,458	34.97	108.7
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
41,922	33.74	104.8	Total vehicle costs	43,458	34.97	108.7
1,723	1.39	4.3	Insurance costs	1,786	1.44	4.5
8,040	6.47	20.1	Admin. and interest	8,334	6.71	20.8
5,743	4.62	14.4	Pickup and delivery	5,953	4.79	14.9
57,428	46.22	143.6	Profit	59,531	47.91	148.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	32,187 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	2,897 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

231.1

Total Operating Cost

239.6

Configuration -- 2 axle straight truck (diesel)

Saskatchewan

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14600 kg.	14600 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	5256 tonnes	5256 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1546	\$ 1546
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 24856	\$ 24856
Wage burden	\$ 6521	\$ 6521

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
32,923	13.25	41.2	Tractor variable costs	32,923	13.25	41.2
8,736	3.51	10.9	Driver	8,736	3.51	10.9
8,414	3.39	10.5	Fuel	10,097	4.06	12.6
821	0.33	1.0	Repairs	821	0.33	1.0
434	0.17	0.5	Cleaning	434	0.17	0.5
3,228	1.30	4.0	Transport	4,616	1.86	5.8
54,556	21.95	68.1	Tires	57,627	23.18	72.0
			Total tractor variable			
13,752	5.53	17.2	Tractor fixed costs	13,752	5.53	17.2
674	0.27	0.8	Depreciation	674	0.27	0.8
14,426	5.80	18.0	Licences	14,426	5.80	18.0
			Total tractor fixed			
68,982	27.75	86.1	Tractor total	72,053	28.98	90.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
68,982	27.75	86.1	Total vehicle costs	72,053	28.98	90.0
2,835	1.14	3.5	Insurance costs	2,961	1.19	3.7
13,230	5.32	16.5	Admin. and interest	13,819	5.56	17.3
9,450	3.80	11.8	Pickup and delivery	9,870	3.97	12.3
94,497	38.01	117.9	Profit	98,703	39.70	123.3
			Total operating cost			

 Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 32,187 lbs.
 Average payload -- 14,484 lbs.
 Estimated annual quantity -- 5,794 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

189.7 Total Operating Cost 198.4

Configuration -- 2 axle straight truck (diesel)

Saskatchewan

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14600 kg.	14600 kg.
	Average Payload	6570 kg.	6570 kg.
	Estimated Annual Quantity	7884 tonnes	7884 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 2319	\$ 2319
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 37283	\$ 37283
	Wage burden	\$ 9782	\$ 9782

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,384	13.25	41.2	Tractor variable costs	49,384	13.25	41.2
13,104	3.51	10.9	Driver	13,104	3.51	10.9
12,621	3.39	10.5	Fuel	15,146	4.06	12.6
1,232	0.33	1.0	Repairs	1,232	0.33	1.0
434	0.12	0.4	Cleaning	434	0.12	0.4
4,842	1.30	4.0	Transport	6,924	1.86	5.8
81,617	21.90	68.0	Tires	86,224	23.13	71.9
			Total tractor variable			
13,752	3.69	11.5	Tractor fixed costs	13,752	3.69	11.5
674	0.18	0.6	Depreciation	674	0.18	0.6
14,426	3.87	12.1	Licences	14,426	3.87	12.1
			Total tractor fixed			
96,043	25.77	80.1	Tractor total	100,650	27.00	84.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
96,043	25.77	80.1	Total vehicle costs	100,650	27.00	84.0
3,947	1.06	3.3	Insurance costs	4,136	1.11	3.4
18,419	4.94	15.3	Admin. and interest	19,303	5.18	16.1
13,157	3.53	11.0	Pickup and delivery	13,788	3.70	11.5
131,566	35.30	109.7	Profit	137,877	36.99	115.0
			Total operating cost			

* Imperial Equivalent Summary *

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	32,187 lbs.
	Average payload --	14,484 lbs.
	Estimated annual quantity --	8,691 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

176.5 Total Operating Cost 185.1

Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Bulk

Annual distance -- 40000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6570 kg.	6570 kg.
	Estimated Annual Quantity	2628 tonnes	2628 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	1243 hrs.	1243 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 773	\$ 773
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 12428	\$ 12428
	Wage burden	\$ 3432	\$ 3432

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour s	Cost per km.		Total Cost \$	Cost per Running Hour s	Cost per km.
16,633	13.38	41.6	Tractor variable costs	16,633	13.38	41.6
4,656	3.75	11.6	Driver	4,656	3.75	11.6
4,614	3.71	11.5	Fuel	5,537	4.46	13.8
322	0.26	0.8	Repairs	322	0.26	0.8
489	0.39	1.2	Cleaning	489	0.39	1.2
1,379	1.11	3.4	Transport	1,972	1.59	4.9
28,093	22.60	70.1	Tires	29,609	23.83	73.9
			Total tractor variable			
13,752	11.07	34.4	Tractor fixed costs	13,752	11.07	34.4
502	0.40	1.3	Depreciation	502	0.40	1.3
14,254	11.47	35.7	Licences	14,254	11.47	35.7
			Total tractor fixed			
42,347	34.07	105.8	Tractor total	43,863	35.30	109.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
42,347	34.07	105.8	Total vehicle costs	43,863	35.30	109.6
1,740	1.40	4.4	Insurance costs	1,803	1.45	4.5
8,121	6.53	20.3	Admin. and interest	8,412	6.77	21.0
			Pickup and delivery			
5,801	4.67	14.5	Profit	6,009	4.84	15.0
58,009	46.67	145.0	Total operating cost	60,087	48.36	150.1

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	34,017 lbs.
	Average payload --	14,484 lbs.
	Estimated annual quantity --	2,897 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

233.3 Total Operating Cost 241.6

Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15430 kg.	15430 kg.
Average Payload	6570 kg.	6570 kg.
Estimated Annual Quantity	5256 tonnes	5256 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1546	\$ 1546
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 24856	\$ 24856
Wage burden	\$ 6864	\$ 6864

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
33,266	13.38	41.6	Tractor variable costs	33,266	13.38	41.6
9,312	3.75	11.6	Driver	9,312	3.75	11.6
9,229	3.71	11.5	Fuel	11,074	4.46	13.8
645	0.26	0.8	Repairs	645	0.26	0.8
489	0.20	0.6	Cleaning	489	0.20	0.6
2,758	1.11	3.4	Transport	3,943	1.59	4.9
55,699	22.41	69.5	Tires	58,729	23.64	73.3
			Total tractor variable			
13,752	5.53	17.2	Tractor fixed costs	13,752	5.53	17.2
502	0.20	0.6	Depreciation	502	0.20	0.6
14,254	5.73	17.8	Licences	14,254	5.73	17.8
			Total tractor fixed			
69,953	28.14	87.3	Tractor total	72,983	29.37	91.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
69,953	28.14	87.3	Total vehicle costs	72,983	29.37	91.1
2,875	1.16	3.6	Insurance costs	2,999	1.21	3.7
13,415	5.40	16.8	Admin. and interest	13,997	5.63	17.5
9,582	3.86	12.0	Pickup and delivery	9,998	4.02	12.5
95,825	38.56	119.7	Profit	99,977	40.23	124.8
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	34,017 lbs.
Average payload --	14,484 lbs.
Estimated annual quantity --	5,794 tons
B. Total Operating Cost per mile (cents/mile)	
Paved roads	192.6
Gravel roads	200.8
Total Operating Cost	

Configuration -- 2 axle straight truck (diesel)

Manitoba

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	15430 kg.	15430 kg.
	Average Payload	6570 kg.	6570 kg.
	Estimated Annual Quantity	7884 tonnes	7884 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2319	\$ 2319
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 37283	\$ 37283
	Wage burden	\$ 10297	\$ 10297

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,899	13.38	41.6	Tractor variable costs	49,899	13.38	41.6
13,968	3.75	11.6	Driver	13,968	3.75	11.6
13,843	3.71	11.5	Fuel	16,611	4.46	13.8
967	0.26	0.8	Repairs	967	0.26	0.8
489	0.13	0.4	Cleaning	489	0.13	0.4
4,136	1.11	3.4	Transport	5,915	1.59	4.9
83,302	22.34	69.3	Tires	87,849	23.57	73.1
			Total tractor variable			
13,752	3.69	11.5	Tractor fixed costs	13,752	3.69	11.5
502	0.13	0.4	Depreciation	502	0.13	0.4
14,254	3.82	11.9	Licences	14,254	3.82	11.9
			Total tractor fixed			
97,556	26.16	81.2	Tractor total	102,103	27.39	85.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
97,556	26.16	81.2	Total vehicle costs	102,103	27.39	85.0
4,009	1.08	3.3	Insurance costs	4,196	1.13	3.5
18,709	5.02	15.6	Admin. and interest	19,581	5.25	16.3
13,364	3.58	11.1	Pickup and delivery	13,987	3.75	11.7
133,638	35.84	111.2	Profit	139,867	37.52	116.5
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	34,017 lbs.
	Average payload --	14,484 lbs.
	Estimated annual quantity --	8,691 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

179.0

Total Operating Cost 187.5

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	4388 tonnes	4388 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1857	\$ 1857
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 17884	\$ 17884
Wage burden	\$ 5133	\$ 5133

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
24,074	20.01	62.2	Tractor variable costs	24,074	20.01	62.2
4,943	3.98	12.4	Driver	4,943	3.98	12.4
5,890	4.74	14.7	Fuel	7,068	5.69	17.7
448	0.36	1.1	Repairs	448	0.36	1.1
489	0.39	1.2	Cleaning	489	0.39	1.2
1,591	1.28	4.0	Transport	2,275	1.83	5.7
38,235	30.76	95.6	Tires	40,097	32.26	100.3
			Total tractor variable			
13,833	11.13	34.6	Tractor fixed costs	13,833	11.13	34.6
764	0.61	1.9	Depreciation	764	0.61	1.9
14,597	11.74	36.5	Licences	14,597	11.74	36.5
			Total tractor fixed			
52,832	42.50	132.1	Tractor total	54,694	44.00	136.8
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
52,832	42.50	132.1	Total vehicle costs	54,694	44.00	136.8
2,171	1.75	5.4	Insurance costs	2,248	1.81	5.6
10,132	8.15	25.3	Admin. and interest	10,489	8.44	26.2
7,237	5.82	18.1	Pickup and delivery	7,492	6.03	18.7
72,372	58.22	180.9	Profit	74,923	60.28	187.3
			Total operating cost			

..... Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	24,184 lbs.
Estimated annual quantity --	4,837 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

291.1

Total Operating Cost 301.4

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Bulk

Annual distance -- 88888 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	8776 tonnes	8776 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3714	\$ 3714
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 35767	\$ 35767
Wage burden	\$ 10265	\$ 10265

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,746	20.01	62.2	Tractor variable costs	49,746	20.01	62.2
9,885	3.98	12.4	Driver	9,885	3.98	12.4
11,780	4.74	14.7	Fuel	14,136	5.69	17.7
896	0.36	1.1	Repairs	896	0.36	1.1
489	0.20	0.6	Cleaning	489	0.20	0.6
3,182	1.28	4.0	Transport	4,550	1.83	5.7
75,978	30.57	95.0	Tires	79,702	32.07	99.7
			Total tractor variable			
13,833	5.57	17.3	Tractor fixed costs	13,833	5.57	17.3
764	0.31	1.0	Depreciation	764	0.31	1.0
14,597	5.88	18.3	Licences	14,597	5.88	18.3
			Total tractor fixed			
90,575	36.45	113.3	Tractor total	94,299	37.95	118.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
90,575	36.45	113.3	Total vehicle costs	94,299	37.95	118.0
3,722	1.50	4.7	Insurance costs	3,875	1.56	4.8
17,370	6.99	21.7	Admin. and interest	18,885	7.28	22.6
			Pickup and delivery			
12,407	4.99	15.5	Profit	12,918	5.20	16.1
124,074	49.93	155.2	Total operating cost	129,177	51.99	161.5

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	24,184 lbs.
Estimated annual quantity --	9,674 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

249.8

Total Operating Cost 259.9

Configuration -- 2 axle straight truck (diesel)

Ontario

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	19000 kg.	19000 kg.
Average Payload	10970 kg.	10970 kg.
Estimated Annual Quantity	13164 tonnes	13164 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5571	\$ 5571
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 53651	\$ 53651
Wage burden	\$ 15398	\$ 15398

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
74,620	20.01	62.2	Tractor variable costs	74,620	20.01	62.2
14,828	3.98	12.4	Driver	14,828	3.98	12.4
17,670	4.74	14.7	Fuel	21,204	5.69	17.7
1,344	0.36	1.1	Repairs	1,344	0.36	1.1
489	0.13	0.4	Cleaning	489	0.13	0.4
4,773	1.28	4.0	Transport	6,825	1.83	5.7
113,724	30.50	94.8	Tires	119,310	32.00	99.5
			Total tractor variable			
13,833	3.71	11.5	Tractor fixed costs	13,833	3.71	11.5
764	0.20	0.6	Depreciation	764	0.20	0.6
14,597	3.91	12.1	Licences	14,597	3.91	12.1
			Total tractor fixed			
128,321	34.41	106.9	Tractor total	133,907	35.91	111.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
128,321	34.41	106.9	Total vehicle costs	133,907	35.91	111.6
5,273	1.41	4.4	Insurance costs	5,503	1.48	4.6
24,609	6.60	20.5	Admin. and interest	25,681	6.89	21.4
17,570	4.71	14.6	Pickup and delivery	18,343	4.92	15.3
175,781	47.13	146.4	Profit	183,434	49.20	152.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	41,887 lbs.
Average payload --	24,184 lbs.
Estimated annual quantity --	14,511 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

235.6

Total Operating Cost 246.1

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	10470 kg.	10470 kg.
Estimated Annual Quantity	4188 tonnes	4188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1572	\$ 1572
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 15858	\$ 15858
Wage burden	\$ 5055	\$ 5055

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
22,485	18.09	56.2	Tractor variable costs	22,485	18.09	56.2
5,786	4.66	14.5	Driver	5,786	4.66	14.5
5,890	4.74	14.7	Fuel	7,068	5.69	17.7
358	0.29	0.9	Repairs	358	0.29	0.9
380	0.31	1.0	Cleaning	380	0.31	1.0
1,591	1.28	4.0	Transport	2,275	1.83	5.7
36,490	29.37	91.3	Tires	38,352	30.87	96.0
			Total tractor variable			
13,962	11.23	34.9	Tractor fixed costs	13,962	11.23	34.9
822	0.66	2.1	Depreciation	822	0.66	2.1
14,784	11.89	37.0	Licences	14,784	11.89	37.0
			Total tractor fixed			
51,274	41.26	128.3	Tractor total	53,136	42.76	133.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
51,274	41.26	128.3	Total vehicle costs	53,136	42.76	133.0
2,107	1.70	5.3	Insurance costs	2,104	1.76	5.5
9,833	7.91	24.6	Admin. and interest	10,190	8.20	25.5
7,024	5.65	17.6	Pickup and delivery	7,279	5.86	18.2
70,238	56.52	175.8	Profit	72,789	58.58	182.2
			Total operating cost			

..... Imperial Equivalent Summary

A. Annual distance travelled -- 24,856 mi.
 Gross vehicle weight -- 40,785 lbs.
 Average payload -- 23,082 lbs.
 Estimated annual quantity -- 4,616 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

282.9

Total Operating Cost

293.2

.....

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	10470 kg.	10470 kg.
Estimated Annual Quantity	8376 tonnes	8376 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3143	\$ 3143
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 31716	\$ 31716
Wage burden	\$ 10109	\$ 10109

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
44,968	18.09	56.2	Tractor variable costs	44,968	18.09	56.2
11,572	4.66	14.5	Driver	11,572	4.66	14.5
11,780	4.74	14.7	Fuel	14,136	5.69	17.7
717	0.29	0.9	Repairs	717	0.29	0.9
380	0.15	0.5	Cleaning	380	0.15	0.5
3,182	1.28	4.0	Transport	4,550	1.83	5.7
72,599	29.21	90.8	Tires	76,323	30.71	95.5
			Total tractor variable			
13,962	5.62	17.5	Tractor fixed costs	13,962	5.62	17.5
822	0.33	1.0	Depreciation	822	0.33	1.0
14,784	5.95	18.5	Licences	14,784	5.95	18.5
			Total tractor fixed			
87,383	35.16	109.3	Tractor total	91,107	36.66	114.0
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
87,383	35.16	109.3	Total vehicle costs	91,107	36.66	114.0
3,591	1.44	4.5	Insurance costs	3,744	1.51	4.7
16,758	6.74	20.9	Admin. and interest	17,472	7.03	21.8
11,970	4.82	15.0	Pickup and delivery	12,480	5.02	15.6
119,702	48.16	149.7	Profit	124,803	50.22	156.1
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	23,082 lbs.
Estimated annual quantity --	9,233 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

240.9

Total Operating Cost 251.2

Configuration -- 2 axle straight truck (diesel)

Quebec

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	18500 kg.	18500 kg.
Average Payload	10470 kg.	10470 kg.
Estimated Annual Quantity	12564 tonnes	12564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4715	\$ 4715
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 47573	\$ 47573
Wage burden	\$ 15164	\$ 15164

C. Total Operating Costs

Paved Roads			Gravel Roads			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
67,452	18.09	56.2	Driver	67,452	18.09	56.2
17,357	4.66	14.5	Fuel	17,357	4.66	14.5
17,670	4.74	14.7	Repairs	21,204	5.69	17.7
1,075	0.29	0.9	Cleaning	1,075	0.29	0.9
380	0.10	0.3	Transport	380	0.10	0.3
4,773	1.28	4.0	Tires	6,825	1.83	5.7
108,707	29.16	90.6	Total tractor variable	114,293	30.66	95.3
			Tractor fixed costs			
13,962	3.74	11.6	Depreciation	13,962	3.74	11.6
822	0.22	0.7	Licences	822	0.22	0.7
14,784	3.96	12.3	Total tractor fixed	14,784	3.96	12.3
123,491	33.12	102.9	Tractor total	129,077	34.62	107.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
123,491	33.12	102.9	Total vehicle costs	129,077	34.62	107.6
5,075	1.36	4.2	Insurance costs	5,305	1.42	4.4
23,683	6.35	19.7	Admin. and interest	24,754	6.64	20.6
16,917	4.54	14.1	Pickup and delivery	17,682	4.74	14.7
169,166	45.37	140.9	Profit	176,818	47.42	147.3
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	40,785 lbs.
Average payload --	23,082 lbs.
Estimated annual quantity --	13,849 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

226.8 Total Operating Cost 237.0

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 691	\$ 691
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13347	\$ 13347
Wage burden	\$ 2990	\$ 2990

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
17,028	13.70	42.6	Tractor variable costs	17,028	13.70	42.6
4,514	3.63	11.3	Driver	4,514	3.63	11.3
5,762	4.64	14.4	Fuel	6,915	5.56	17.3
328	0.26	0.8	Repairs	328	0.26	0.8
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
29,615	23.83	74.1	Tires	31,435	25.28	78.6
			Total tractor variable			
14,266	11.48	35.7	Tractor fixed costs	14,266	11.48	35.7
482	0.39	1.2	Depreciation	482	0.39	1.2
14,748	11.87	36.9	Licences	14,748	11.87	36.9
			Total tractor fixed			
44,363	35.70	111.0	Tractor total	46,183	37.15	115.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
44,363	35.70	111.0	Total vehicle costs	46,183	37.15	115.5
1,823	1.47	4.6	Insurance costs	1,898	1.53	4.7
8,508	6.85	21.3	Admin. and interest	8,857	7.13	22.1
6,077	4.89	15.2	Pickup and delivery	6,326	5.09	15.8
60,771	48.91	152.1	Profit	63,264	50.90	158.1
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

244.8

Total Operating Cost

254.4

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
		14500 kg.	14500 kg.
	Gross Vehicle Weight	5470 kg.	5470 kg.
	Average Payload	4376 tonnes	4376 tonnes
	Estimated Annual Quantity	3.1 hrs.	3.1 hrs.
	Trip Running Time	2486 hrs.	2486 hrs.
	Annual Running Hours		
B.	Driver Costs		
	Load - unload time cost	\$ 1382	\$ 1382
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 26695	\$ 26695
	Wage burden	\$ 5980	\$ 5980

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
34,057	13.70	42.6	34,057	13.70	42.6
9,027	3.63	11.3	9,027	3.63	11.3
11,525	4.64	14.4	13,830	5.56	17.3
657	0.26	0.8	657	0.26	0.8
434	0.17	0.5	434	0.17	0.5
3,099	1.25	3.9	4,431	1.78	5.5
58,799	23.65	73.5	62,436	25.10	78.0
Tractor fixed costs					
14,266	5.74	17.8	14,266	5.74	17.8
482	0.19	0.6	482	0.19	0.6
14,748	5.93	18.4	14,748	5.93	18.4
73,547	29.58	91.9	77,184	31.03	96.4
Trailer variable costs					
Repairs					
Cleaning					
Transport					
Tires					
Total trailer variable					
Trailer fixed costs					
Depreciation					
Licences					
Total trailer fixed					
Trailer total					
73,547	29.58	91.9	77,184	31.03	96.4
3,022	1.22	3.8	3,172	1.28	4.0
14,105	5.67	17.6	14,803	5.96	18.5
10,075	4.05	12.6	10,573	4.25	13.2
100,749	40.52	125.9	105,732	42.52	132.1

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	4,824 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
202.6	212.6
Total Operating Cost	

Configuration -- 2 axle straight truck (diesel)

New Brunswick

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
14500 kg.	14500 kg.
5470 kg.	5470 kg.
6564 tonnes	6564 tonnes
3.1 hrs.	3.1 hrs.
3728 hrs.	3728 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 2073	\$ 2073
\$ 0	\$ 0
\$ 40042	\$ 40042
\$ 8971	\$ 8971

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,086	13.70	42.6	Tractor variable costs	51,086	13.70	42.6
13,541	3.63	11.3	Driver	13,541	3.63	11.3
17,287	4.64	14.4	Fuel	20,745	5.56	17.3
985	0.26	0.8	Repairs	985	0.26	0.8
434	0.12	0.4	Cleaning	434	0.12	0.4
4,648	1.25	3.9	Transport	6,647	1.79	5.5
87,981	23.60	73.4	Tires	93,438	25.05	77.9
			Total tractor variable			
14,266	3.83	11.9	Tractor fixed costs	14,266	3.83	11.9
482	0.13	0.4	Depreciation	482	0.13	0.4
14,748	3.96	12.3	Licences	14,748	3.96	12.3
			Total tractor fixed			
102,729	27.56	85.7	Tractor total	108,186	29.01	90.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
102,729	27.56	85.7	Total vehicle costs	108,186	29.01	90.2
4,222	1.13	3.5	Insurance costs	4,446	1.19	3.7
19,702	5.28	16.4	Admin. and interest	20,748	5.56	17.3
14,073	3.77	11.7	Pickup and delivery	14,820	3.97	12.4
140,726	37.74	117.3	Profit	148,200	39.73	123.6
			Total operating cost			

.....
 * Imperial Equivalent Summary *

A. Annual distance travelled -- 74,568 mi.
 Gross vehicle weight -- 31,967 lbs.
 Average payload -- 12,059 lbs.
 Estimated annual quantity -- 7,235 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

188.8

Total Operating Cost 198.9

.....

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 691	\$ 691
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13347	\$ 13347
Wage burden	\$ 2990	\$ 2990

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
17,028	13.70	42.6	Tractor variable costs	17,028	13.70	42.6
4,566	3.67	11.4	Driver	4,566	3.67	11.4
5,762	4.64	14.4	Fuel	6,915	5.56	17.3
328	0.26	0.8	Repairs	328	0.26	0.8
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
29,667	23.87	74.2	Tires	31,487	25.32	78.7
			Total tractor variable			
14,138	11.38	35.3	Tractor fixed costs	14,138	11.38	35.3
481	0.39	1.2	Depreciation	481	0.39	1.2
14,619	11.77	36.5	Licences	14,619	11.77	36.5
			Total tractor fixed			
44,286	35.64	110.7	Tractor total	46,106	37.09	115.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
44,286	35.64	110.7	Total vehicle costs	46,106	37.09	115.2
1,820	1.46	4.6	Insurance costs	1,895	1.52	4.7
8,493	6.83	21.2	Admin. and interest	8,842	7.11	22.1
6,067	4.88	15.2	Pickup and delivery	6,316	5.08	15.8
60,666	48.81	151.7	Profit	63,159	50.80	157.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

244.1 Total Operating Cost 253.9

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14500 kg.	14500 kg.
	Average Payload	5470 kg.	5470 kg.
	Estimated Annual Quantity	4376 tonnes	4376 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 1382	\$ 1382
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 26695	\$ 26695
	Wage burden	\$ 5980	\$ 5980

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
34,057	13.70	42.6	Tractor variable costs	34,057	13.70	42.6
9,132	3.67	11.4	Driver	9,132	3.67	11.4
11,525	4.64	14.4	Fuel	13,830	5.56	17.3
657	0.26	0.8	Repairs	657	0.26	0.8
434	0.17	0.5	Cleaning	434	0.17	0.5
3,099	1.25	3.9	Transport	4,431	1.78	5.5
58,904	23.69	73.6	Tires	62,541	25.14	78.1
			Total tractor variable			
14,138	5.69	17.7	Tractor fixed costs	14,138	5.69	17.7
481	0.19	0.6	Depreciation	481	0.19	0.6
14,619	5.88	18.3	Licences	14,619	5.88	18.3
			Total tractor fixed			
73,523	29.57	91.9	Tractor total	77,160	31.02	96.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
73,523	29.57	91.9	Total vehicle costs	77,160	31.02	96.4
3,021	1.22	3.8	Insurance costs	3,171	1.28	4.0
14,100	5.67	17.6	Admin. and interest	14,798	5.95	18.5
10,072	4.05	12.6	Pickup and delivery	10,570	4.25	13.2
100,716	40.51	125.9	Profit	105,699	42.50	132.1
			Total operating cost			

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 49,712 mi. *

* Gross vehicle weight -- 31,967 lbs. *

* Average payload -- 12,059 lbs. *

* Estimated annual quantity -- 4,824 tons *

* B. Total Operating Cost per mile (cents/mile) *

* P a v e d r o a d s G r a v e l r o a d s *

* 202.6 Total Operating Cost 212.6 *

Configuration -- 2 axle straight truck (diesel)

Nova Scotia

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	6564 tonnes	6564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2073	\$ 2073
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 40042	\$ 40042
Wage burden	\$ 8971	\$ 8971

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
51,086	13.70	42.6	Driver	51,086	13.70	42.6
13,698	3.67	11.4	Fuel	13,698	3.67	11.4
17,287	4.64	14.4	Repairs	20,745	5.56	17.3
985	0.26	0.8	Cleaning	985	0.26	0.8
434	0.12	0.4	Transport	434	0.12	0.4
4,648	1.25	3.9	Tires	6,647	1.78	5.5
88,138	23.64	73.5	Total tractor variable	93,595	25.09	78.0
			Tractor fixed costs			
14,138	3.79	11.8	Depreciation	14,138	3.79	11.8
481	0.13	0.4	Licences	481	0.13	0.4
14,619	3.92	12.2	Total tractor fixed	14,619	3.92	12.2
102,757	27.56	85.7	Tractor total	108,214	29.01	90.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
102,757	27.56	85.7	Total vehicle costs	108,214	29.01	90.2
4,223	1.13	3.5	Insurance costs	4,447	1.19	3.7
19,707	5.29	16.4	Admin. and interest	20,753	5.57	17.3
14,076	3.78	11.7	Pickup and delivery	14,824	3.98	12.4
140,763	37.76	117.3	Profit	148,238	39.75	123.6
			Total operating cost			

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	74,568 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	7,235 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

188.8

Total Operating Cost

198.9

Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 568	\$ 568
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 10974	\$ 10974
Wage burden	\$ 2458	\$ 2458

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
14,000	11.27	35.0	Tractor variable costs			
4,513	3.63	11.3	Driver	14,000	11.27	35.0
5,762	4.64	14.4	Fuel	4,513	3.63	11.3
328	0.26	0.8	Repairs	6,915	5.56	17.3
434	0.35	1.1	Cleaning	328	0.26	0.8
1,549	1.25	3.9	Transport	434	0.35	1.1
26,586	21.40	66.5	Tires	2,216	1.78	5.5
			Total tractor variable	28,406	22.85	71.0
14,138	11.38	35.3	Tractor fixed costs			
395	0.32	1.0	Depreciation	14,138	11.38	35.3
14,533	11.70	36.3	Licences	395	0.32	1.0
			Total tractor fixed	14,533	11.70	36.3
41,119	33.10	102.8	Tractor total	42,939	34.55	107.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
41,119	33.10	102.8	Total vehicle costs	42,939	34.55	107.3
1,690	1.36	4.2	Insurance costs	1,765	1.42	4.4
7,886	6.35	19.7	Admin. and interest	8,235	6.63	20.6
5,633	4.53	14.1	Pickup and delivery	5,882	4.73	14.7
56,328	45.34	140.8	Profit	58,821	47.33	147.0
			Total operating cost			

* Imperial Equivalent Summary *

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

226.6 Total Operating Cost 236.6

Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14500 kg.	14500 kg.
	Average Payload	5470 kg.	5470 kg.
	Estimated Annual Quantity	4376 tonnes	4376 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	2486 hrs.	2486 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 1136	\$ 1136
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 21947	\$ 21947
	Wage burden	\$ 4917	\$ 4917

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
28,000	11.27	35.0	Driver	28,000	11.27	35.0
9,025	3.63	11.3	Fuel	9,025	3.63	11.3
11,525	4.64	14.4	Repairs	13,830	5.56	17.3
657	0.26	0.8	Cleaning	657	0.26	0.8
434	0.17	0.5	Transport	434	0.17	0.5
3,099	1.25	3.9	Tires	4,431	1.78	5.5
52,740	21.22	65.9	Total tractor variable	56,377	22.67	70.4
			Tractor fixed costs			
14,138	5.69	17.7	Depreciation	14,138	5.69	17.7
395	0.16	0.5	Licences	395	0.16	0.5
14,533	5.85	18.2	Total tractor fixed	14,533	5.85	18.2
67,273	27.07	84.1	Tractor total	70,910	28.52	88.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
67,273	27.07	84.1	Total vehicle costs	70,910	28.52	88.6
2,765	1.11	3.5	Insurance costs	2,914	1.17	3.6
12,902	5.19	16.1	Admin. and interest	13,599	5.47	17.0
			Pickup and delivery			
9,215	3.71	11.5	Profit	9,714	3.91	12.1
92,155	37.08	115.2	Total operating cost	97,137	39.07	121.3

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	31,967 lbs.
	Average payload --	12,059 lbs.
	Estimated annual quantity --	4,824 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

185.4 Total Operating Cost 195.2

Configuration -- 2 axle straight truck (diesel)

P.E.I.

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14500 kg.	14500 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	6564 tonnes	6564 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1705	\$ 1705
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 32921	\$ 32921
Wage burden	\$ 7375	\$ 7375

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
42,001	11.27	35.0	Tractor variable costs	42,001	11.27	35.0
13,538	3.63	11.3	Driver	13,538	3.63	11.3
17,287	4.64	14.4	Fuel	20,745	5.56	17.3
985	0.26	0.8	Repairs	985	0.26	0.8
434	0.12	0.4	Cleaning	434	0.12	0.4
4,648	1.25	3.9	Transport	6,647	1.78	5.5
78,893	21.17	65.8	Tires	84,350	22.62	70.3
			Total tractor variable			
14,138	3.79	11.8	Tractor fixed costs	14,138	3.79	11.8
395	0.11	0.3	Depreciation	395	0.11	0.3
14,533	3.90	12.1	Licences	14,533	3.90	12.1
			Total tractor fixed			
93,426	25.07	77.9	Tractor total	98,883	26.52	82.4
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
93,426	25.07	77.9	Total vehicle costs	98,883	26.52	82.4
3,839	1.03	3.2	Insurance costs	4,064	1.09	3.4
17,917	4.81	14.9	Admin. and interest	18,964	5.09	15.8
12,798	3.43	10.7	Pickup and delivery	13,546	3.63	11.3
127,980	34.34	106.7	Profit	135,457	36.33	112.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	31,967 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	7,235 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

171.7

Total Operating Cost 181.7

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	14969 kg.	14969 kg.
Average Payload	5470 kg.	5470 kg.
Estimated Annual Quantity	2188 tonnes	2188 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 732	\$ 732
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 14130	\$ 14130
Wage burden	\$ 3166	\$ 3166

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
10,020	14.51	45.1	Tractor variable costs	10,020	14.51	45.1
5,089	4.09	12.7	Driver	5,089	4.09	12.7
6,300	5.07	15.8	Fuel	7,560	6.08	18.9
478	0.38	1.2	Repairs	478	0.38	1.2
434	0.35	1.1	Cleaning	434	0.35	1.1
1,549	1.25	3.9	Transport	2,216	1.78	5.5
31,878	25.65	79.8	Tires	33,805	27.19	84.5
			Total tractor variable			
14,395	11.58	36.0	Tractor fixed costs	14,395	11.58	36.0
440	0.35	1.1	Depreciation	440	0.35	1.1
14,835	11.93	37.1	Licences	14,835	11.93	37.1
			Total tractor fixed			
46,713	37.58	116.9	Tractor total	48,640	39.12	121.6
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
46,713	37.58	116.9	Total vehicle costs	48,640	39.12	121.6
1,920	1.54	4.8	Insurance costs	1,999	1.61	5.0
8,959	7.21	22.4	Admin. and interest	9,320	7.51	23.3
6,399	5.15	16.0	Pickup and delivery	6,663	5.36	16.7
63,991	51.48	160.1	Profit	66,630	53.60	166.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,001 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	2,412 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

257.6

Total Operating Cost 268.1

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilisation	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.
	Average Payload	5470 kg.
	Estimated Annual Quantity	4376 tonnes
	Trip Running Time	3.1 hrs.
B. Driver Costs	Annual Running Hours	2486 hrs.
	Load - unload time cost	\$ 1463
	Distance wage	\$ 0
	Hourly wage	\$ 28261
	Wage Burden	\$ 6331

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
36,055	14.51	45.1	Tractor variable costs	36,055	14.51	45.1
10,178	4.09	12.7	Driver	10,178	4.09	12.7
12,600	5.07	15.0	Fuel	15,120	6.08	18.9
955	0.38	1.2	Repairs	955	0.38	1.2
434	0.17	0.5	Cleaning	434	0.17	0.5
3,099	1.25	3.9	Transport	4,431	1.78	5.5
63,321	25.47	79.2	Tires	67,173	27.01	83.9
			Total tractor variable			
14,395	5.79	18.0	Tractor fixed costs	14,395	5.79	18.0
440	0.18	0.6	Depreciation	440	0.18	0.6
14,835	5.97	18.6	Licences	14,835	5.97	18.6
			Total tractor fixed			
78,156	31.44	97.8	Tractor total	82,008	32.98	102.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
78,156	31.44	97.8	Total vehicle costs	82,008	32.98	102.5
3,212	1.29	4.0	Insurance costs	3,370	1.36	4.2
14,989	6.03	18.7	Admin. and interest	15,728	6.33	19.7
10,786	4.31	13.4	Pickup and delivery	11,234	4.52	14.0
107,063	43.07	133.9	Profit	112,340	45.19	140.4
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	33,001 lbs.
Average payload --	12,059 lbs.
Estimated annual quantity --	4,824 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

215.5

Total Operating Cost 225.9

Configuration -- 2 axle straight truck (diesel)

Newfoundland

Commodity -- Bulk

Annual distance -- 120000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	14969 kg.	14969 kg.
	Average Payload	5470 kg.	5470 kg.
	Estimated Annual Quantity	6564 tonnes	6564 tonnes
	Trip Running Time	3.1 hrs.	3.1 hrs.
	Annual Running Hours	3728 hrs.	3728 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2195	\$ 2195
	Distance wage	\$ 0	\$ 0
	Hourly wage	\$ 42391	\$ 42391
	Wage burden	\$ 9497	\$ 9497

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
54,083	14.51	45.1	Driver	54,083	14.51	45.1
15,267	4.09	12.7	Fuel	15,267	4.09	12.7
18,899	5.07	15.7	Repairs	22,679	6.08	18.9
1,433	0.38	1.2	Cleaning	1,433	0.38	1.2
434	0.12	0.4	Transport	434	0.12	0.4
4,648	1.25	3.9	Tires	6,647	1.78	5.5
94,764	25.42	79.0	Total tractor variable	100,543	26.96	83.8
			Tractor fixed costs			
14,395	3.86	12.0	Depreciation	14,395	3.86	12.0
440	0.12	0.4	Licences	440	0.12	0.4
14,835	3.98	12.4	Total tractor fixed	14,835	3.98	12.4
109,599	29.40	91.4	Tractor total	115,378	30.94	96.2
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
109,599	29.40	91.4	Total vehicle costs	115,378	30.94	96.2
4,504	1.21	3.8	Insurance costs	4,742	1.27	4.0
21,019	5.64	17.5	Admin. and interest	22,127	5.93	18.4
15,014	4.03	12.5	Pickup and delivery	15,805	4.24	13.2
150,136	40.28	125.2	Profit	158,052	42.38	131.8
			Total operating cost			

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 * Imperial Equivalent Summary *

A. Annual distance travelled -- 74,568 mi.
 Gross vehicle weight -- 33,001 lbs.
 Average payload -- 12,059 lbs.
 Estimated annual quantity -- 7,235 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

201.5 Total Operating Cost 212.1

Configuration -- 2 axle straight truck (diesel)

N.W.T.

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	3970 kg.	3970 kg.
Estimated Annual Quantity	1588 tonnes	1588 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 490	\$ 490
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 13049	\$ 13049
Wage burden	\$ 3453	\$ 3453

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
16,992	13.67	42.5	Tractor variable costs	16,992	13.67	42.5
5,069	4.08	12.7	Driver	5,069	4.08	12.7
5,429	4.37	13.6	Fuel	6,514	5.24	16.3
478	0.38	1.2	Repairs	478	0.38	1.2
814	0.65	2.0	Cleaning	814	0.65	2.0
1,883	1.52	4.7	Transport	2,693	2.17	6.7
30,665	24.67	76.7	Tires	32,560	26.19	81.4
			Total tractor variable			
12,853	10.34	32.1	Tractor fixed costs	12,853	10.34	32.1
320	0.26	0.8	Depreciation	320	0.26	0.8
13,173	10.60	32.9	Licences	13,173	10.60	32.9
			Total tractor fixed			
43,838	35.27	109.6	Tractor total	45,733	36.79	114.3
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
43,838	35.27	109.6	Total vehicle costs	45,733	36.79	114.3
1,802	1.45	4.5	Insurance costs	1,879	1.51	4.7
8,407	6.76	21.0	Admin. and interest	8,771	7.06	21.9
6,005	4.83	15.0	Pickup and delivery	6,265	5.04	15.7
60,052	48.31	150.1	Profit	62,648	50.40	156.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	24,856 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	8,752 lbs.
Estimated annual quantity --	1,750 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

241.6

Total Operating Cost 252.0

Configuration -- 2 axle straight truck (diesel)

N.W.T.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	3970 kg.	3970 kg.
Estimated Annual Quantity	3176 tonnes	3176 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 981	\$ 981
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 26098	\$ 26098
Wage burden	\$ 6905	\$ 6905

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
33,984	13.67	42.5	Tractor variable costs	33,984	13.67	42.5
10,138	4.08	12.7	Driver	10,138	4.08	12.7
10,857	4.37	13.6	Fuel	13,029	5.24	16.3
955	0.38	1.2	Repairs	955	0.38	1.2
814	0.33	1.0	Cleaning	814	0.33	1.0
3,766	1.52	4.7	Transport	5,385	2.17	6.7
60,514	24.35	75.7	Tires	64,305	25.87	80.4
			Total tractor variable			
12,853	5.17	16.1	Tractor fixed costs	12,853	5.17	16.1
320	0.13	0.4	Depreciation	320	0.13	0.4
13,173	5.30	16.5	Licences	13,173	5.30	16.5
			Total tractor fixed			
73,687	29.65	92.2	Tractor total	77,478	31.17	96.9
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
73,687	29.65	92.2	Total vehicle costs	77,478	31.17	96.9
3,020	1.22	3.8	Insurance costs	3,184	1.28	4.0
14,132	5.69	17.7	Admin. and interest	14,859	5.98	18.6
10,094	4.06	12.6	Pickup and delivery	10,613	4.27	13.3
100,941	40.62	126.3	Profit	106,134	42.70	132.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	8,752 lbs.
Estimated annual quantity --	3,501 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

203.3 Total Operating Cost 213.7

Configuration -- 2 axle straight truck (diesel)

N.W.T.

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	3970 kg.	3970 kg.
Estimated Annual Quantity	4764 tonnes	4764 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1471	\$ 1471
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 39147	\$ 39147
Wage burden	\$ 10358	\$ 10358

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
50,976	13.67	42.5	Tractor variable costs	50,976	13.67	42.5
15,207	4.08	12.7	Driver	15,207	4.08	12.7
16,286	4.37	13.6	Fuel	19,543	5.24	16.3
1,433	0.38	1.2	Repairs	1,433	0.38	1.2
814	0.22	0.7	Cleaning	814	0.22	0.7
5,649	1.52	4.7	Transport	8,078	2.17	6.7
90,365	24.24	75.4	Tires	96,051	25.76	80.1
			Total tractor variable			
12,853	3.45	10.7	Tractor fixed costs	12,853	3.45	10.7
320	0.09	0.3	Depreciation	320	0.09	0.3
13,173	3.54	11.0	Licences	13,173	3.54	11.0
			Total tractor fixed			
103,538	27.78	86.4	Tractor total	109,224	29.30	91.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
103,538	27.78	86.4	Total vehicle costs	109,224	29.30	91.1
4,255	1.14	3.5	Insurance costs	4,489	1.20	3.7
19,956	5.33	16.5	Admin. and interest	20,947	5.62	17.5
14,183	3.80	11.8	Pickup and delivery	14,962	4.01	12.5
141,832	38.05	118.2	Profit	149,622	40.13	124.8
			Total operating cost			

 * Imperial Equivalent Summary *
 *

A. Annual distance travelled -- 74,568 mi.
 Gross vehicle weight -- 33,069 lbs.
 Average payload -- 8,752 lbs.
 Estimated annual quantity -- 5,251 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

190.2 Total Operating Cost 200.8

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Bulk

Annual distance -- 40000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	6970 kg.	6970 kg.
Estimated Annual Quantity	2788 tonnes	2788 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	1243 hrs.	1243 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1003	\$ 1003
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 15199	\$ 15199
Wage burden	\$ 3645	\$ 3645

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
19,847	15.97	49.6	Driver	19,847	15.97	49.6
5,047	4.06	12.6	Fuel	5,047	4.06	12.6
5,836	4.70	14.6	Repairs	7,003	5.63	17.5
448	0.36	1.1	Cleaning	448	0.36	1.1
760	0.61	1.9	Transport	760	0.61	1.9
1,883	1.52	4.7	Tires	2,693	2.17	6.7
33,821	27.22	84.5	Total tractor variable	35,798	28.80	89.4
			Tractor fixed costs			
12,853	10.34	32.1	Depreciation	12,853	10.34	32.1
400	0.32	1.0	Licences	400	0.32	1.0
13,253	10.66	33.1	Total tractor fixed	13,253	10.66	33.1
47,074	37.88	117.6	Tractor total	49,051	39.46	122.5
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
47,074	37.88	117.6	Total vehicle costs	49,051	39.46	122.5
1,935	1.56	4.8	Insurance costs	2,016	1.62	5.0
9,028	7.26	22.6	Admin. and interest	9,407	7.57	23.5
6,448	5.19	16.1	Pickup and delivery	6,719	5.41	16.8
64,485	51.89	161.1	Profit	67,193	54.06	167.8
			Total operating cost			

* Imperial Equivalent Summary *

A.	Annual distance travelled --	24,856 mi.
	Gross vehicle weight --	33,069 lbs.
	Average payload --	15,366 lbs.
	Estimated annual quantity --	3,073 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

259.3 Total Operating Cost 270.0

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	6970 kg.	6970 kg.
Estimated Annual Quantity	5576 tonnes	5576 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	2486 hrs.	2486 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2006	\$ 2006
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 30398	\$ 30398
Wage burden	\$ 7291	\$ 7291

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
39,695	15.97	49.6	Tractor variable costs	39,695	15.97	49.6
10,094	4.06	12.6	Driver	10,094	4.06	12.6
11,671	4.70	14.6	Fuel	14,006	5.63	17.5
896	0.36	1.1	Repairs	896	0.36	1.1
760	0.31	1.0	Cleaning	760	0.31	1.0
3,766	1.52	4.7	Transport	5,385	2.17	6.7
66,882	26.92	83.6	Tires	70,836	28.50	88.5
			Total tractor variable			
12,853	5.17	16.1	Tractor fixed costs	12,853	5.17	16.1
400	0.16	0.5	Depreciation	400	0.16	0.5
13,253	5.33	16.6	Licences	13,253	5.33	16.6
			Total tractor fixed			
80,135	32.25	100.2	Tractor total	84,089	33.83	105.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
80,135	32.25	100.2	Total vehicle costs	84,089	33.83	105.1
3,293	1.32	4.1	Insurance costs	3,456	1.39	4.3
15,368	6.18	19.2	Admin. and interest	16,127	6.49	20.2
10,977	4.42	13.7	Pickup and delivery	11,519	4.63	14.4
109,773	44.17	137.2	Profit	115,191	46.34	144.0
			Total operating cost			

.....
* I m p e r i a l E q u i v a l e n t S u m m a r y *
.....

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	15,366 lbs.
Estimated annual quantity --	6,146 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

220.8

Total Operating Cost 231.7

.....

Configuration -- 2 axle straight truck (diesel)

Yukon

Commodity -- Bulk

Annual distance -- 120000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	15000 kg.	15000 kg.
Average Payload	6970 kg.	6970 kg.
Estimated Annual Quantity	8364 tonnes	8364 tonnes
Trip Running Time	3.1 hrs.	3.1 hrs.
Annual Running Hours	3728 hrs.	3728 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3009	\$ 3009
Distance wage	\$ 0	\$ 0
Hourly wage	\$ 45597	\$ 45597
Wage burden	\$ 10936	\$ 10936

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
59,542	15.97	49.6	Tractor variable costs	59,542	15.97	49.6
15,141	4.06	12.6	Driver	15,141	4.06	12.6
17,507	4.70	14.6	Fuel	21,008	5.63	17.5
1,344	0.36	1.1	Repairs	1,344	0.36	1.1
760	0.20	0.6	Cleaning	760	0.20	0.6
5,649	1.52	4.7	Transport	8,078	2.17	6.7
99,943	26.81	83.2	Tires	105,873	28.39	88.1
			Total tractor variable			
12,853	3.45	10.7	Tractor fixed costs	12,853	3.45	10.7
400	0.11	0.3	Depreciation	400	0.11	0.3
13,253	3.56	11.0	Licences	13,253	3.56	11.0
			Total tractor fixed			
113,196	30.37	94.2	Tractor total	119,126	31.95	99.1
			Trailer variable costs			
			Repairs			
			Cleaning			
			Transport			
			Tires			
			Total trailer variable			
			Trailer fixed costs			
			Depreciation			
			Licences			
			Total trailer fixed			
			Trailer total			
113,196	30.37	94.2	Total vehicle costs	119,126	31.95	99.1
4,652	1.25	3.9	Insurance costs	4,896	1.31	4.1
21,709	5.82	18.1	Admin. and interest	22,846	6.13	19.0
15,506	4.16	12.9	Pickup and delivery	16,319	4.38	13.6
155,063	41.60	129.1	Profit	163,187	43.77	135.8
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	74,568 mi.
Gross vehicle weight --	33,069 lbs.
Average payload --	15,366 lbs.
Estimated annual quantity --	9,220 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

207.8

Total Operating Cost

218.5

S AXLE

SEMI-TRAILER

DRY FREIGHT



Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road
 39500 kg.
 19155 kg.
 4789 tonnes
 5.7 hrs.
 1420 hrs.

Gravel Road
 39500 kg.
 19155 kg.
 4789 tonnes
 6.6 hrs.
 1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 8838
 \$ 21600
 \$ 0
 \$ 7427

\$ 8838
 \$ 0
 \$ 29094
 \$ 9255

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
37,865	26.66	47.3	Tractor variable costs			
15,551	10.95	19.4	Driver	47,187	28.48	59.0
11,302	7.96	14.1	Fuel	15,551	9.38	19.4
208	0.15	0.3	Repairs	13,562	8.18	17.0
3,400	2.39	4.3	Cleaning	208	0.13	0.3
2,341	1.65	2.9	Transport	3,400	2.05	4.3
70,667	49.76	88.3	Tires	3,980	2.40	5.0
			Total tractor variable	83,888	50.62	105.0
			Tractor fixed costs			
17,201	12.11	21.5	Depreciation	17,201	10.38	21.5
1,508	1.06	1.9	Licences	1,508	0.91	1.9
18,709	13.17	23.4	Total tractor fixed	18,709	11.29	23.4
89,376	62.93	111.7	Tractor total	102,597	61.91	128.4
			Trailer variable costs			
4,780	3.37	6.0	Repairs	5,736	3.46	7.2
746	0.53	0.9	Cleaning	746	0.45	0.9
1,194	0.84	1.5	Transport	1,194	0.72	1.5
2,268	1.60	2.8	Tires	3,742	2.26	4.7
8,988	6.34	11.2	Total trailer variable	11,418	6.89	14.3
			Trailer fixed costs			
4,074	2.87	5.1	Depreciation	4,074	2.46	5.1
25	0.02		Licences	25	0.02	
4,099	2.89	5.1	Total trailer fixed	4,099	2.48	5.1
13,087	9.23	16.3	Trailer total	15,517	9.37	19.4
102,463	72.16	128.0	Total vehicle costs	118,114	71.28	147.8
4,211	2.96	5.3	Insurance costs	4,854	2.93	6.1
19,651	13.84	24.6	Admin. and interest	22,652	13.67	28.3
14,036	9.88	17.5	Pickup and delivery			
140,361	98.84	175.4	Profit	16,180	9.76	20.2
			Total operating cost	161,800	97.64	202.4

 * Imperial Equivalent Summary *
 *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 87,082 lbs.
 Average payload -- 42,229 lbs.
 Estimated annual quantity -- 5,279 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

282.3

Total Operating Cost 325.7

Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Dry Freight

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	39500 kg.	39500 kg.
	Average Payload	19155 kg.	19155 kg.
	Estimated Annual Quantity	9578 tonnes	9578 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2041 hrs.	3314 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 17676	\$ 17676
	Distance wage	\$ 43200	\$ 0
	Hourly wage	\$ 0	\$ 58108
	Wage burden	\$ 14854	\$ 10511

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
			Tractor variable costs			
75,730	26.66	47.3	Driver	94,375	28.48	59.0
31,102	10.95	19.4	Fuel	31,102	9.38	19.4
22,603	7.96	14.1	Repairs	27,124	8.18	17.0
416	0.15	0.3	Cleaning	416	0.13	0.3
3,400	1.20	2.1	Transport	3,400	1.03	2.1
4,683	1.65	2.9	Tires	7,960	2.40	5.0
137,934	48.57	86.1	Total tractor variable	164,377	49.00	102.8
			Tractor fixed costs			
17,201	6.06	10.8	Depreciation	17,201	5.19	10.8
1,508	0.53	0.9	Licences	1,508	0.46	0.9
18,709	6.59	11.7	Total tractor fixed	18,709	5.65	11.7
156,643	55.16	97.8	Tractor total	183,086	55.25	114.5
			Trailer variable costs			
9,561	3.37	6.0	Repairs	11,473	3.46	7.2
1,493	0.53	0.9	Cleaning	1,493	0.45	0.9
1,194	0.42	0.7	Transport	1,194	0.36	0.7
4,536	1.60	2.8	Tires	7,485	2.26	4.7
16,784	5.92	10.4	Total trailer variable	21,645	6.53	13.5
			Trailer fixed costs			
4,074	1.43	2.5	Depreciation	4,074	1.23	2.5
25	0.01		Licences	25	0.01	
4,099	1.44	2.5	Total trailer fixed	4,099	1.24	2.5
20,883	7.36	12.9	Trailer total	25,744	7.77	16.0
177,526	62.52	110.7	Total vehicle costs	208,830	63.02	130.5
7,296	2.57	4.6	Insurance costs	8,582	2.59	5.4
34,046	11.99	21.3	Admin. and interest	40,050	12.08	25.0
24,319	8.56	15.2	Pickup and delivery	28,607	8.63	17.9
243,187	85.64	151.8	Profit	286,069	86.32	178.8
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	99,424 mi.
	Gross vehicle weight --	87,082 lbs.
	Average payload --	42,229 lbs.
	Estimated annual quantity --	10,558 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

244.3 Total Operating Cost 287.7

Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	19155 kg.	19155 kg.
Estimated Annual Quantity	14366 tonnes	14366 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 26514	\$ 26514
Distance wage	\$ 64800	\$ 0
Hourly wage	\$ 0	\$ 87262
Wage burden	\$ 22281	\$ 27766

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
113,595	26.66	47.3	Tractor variable costs			
46,653	10.95	19.4	Driver	141,562	28.48	59.0
33,905	7.96	14.1	Fuel	46,653	9.38	19.4
623	0.15	0.3	Repairs	40,686	8.18	17.0
3,400	0.80	1.4	Cleaning	623	0.13	0.3
7,024	1.65	2.9	Transport	3,400	0.68	1.4
205,200	48.17	85.4	Tires	11,941	2.40	5.0
			Total tractor variable	244,865	49.25	102.1
17,201	4.04	7.2	Tractor fixed costs			
1,508	0.35	0.6	Depreciation	17,201	3.46	7.2
18,709	4.39	7.8	Licences	1,508	0.30	0.6
			Total tractor fixed	18,709	3.76	7.8
223,909	52.56	93.2	Tractor total	263,574	53.01	109.9
14,341	3.37	6.0	Trailer variable costs			
2,239	0.53	0.9	Repairs	17,209	3.46	7.2
1,194	0.28	0.5	Cleaning	2,239	0.45	0.9
6,804	1.60	2.8	Transport	1,194	0.24	0.5
24,578	5.78	10.2	Tires	11,227	2.26	4.7
			Total trailer variable	31,869	6.41	13.3
4,074	0.96	1.7	Trailer fixed costs			
25	0.01		Depreciation	4,074	0.82	1.7
4,099	0.97	1.7	Licences	25	0.01	
			Total trailer fixed	4,099	0.83	1.7
20,677	6.75	11.9	Trailer total	35,968	7.24	15.0
252,586	59.31	105.1	Total vehicle costs	299,542	60.25	124.9
10,380	2.44	4.3	Insurance costs	12,310	2.48	5.1
48,442	11.37	20.2	Admin. and interest	57,447	11.56	23.9
34,601	8.12	14.4	Pickup and delivery			
346,009	81.24	144.0	Profit	41,033	8.25	17.1
			Total operating cost	410,332	82.54	171.0

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	42,229 lbs.
Estimated annual quantity --	15,836 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

231.7

Total Operating Cost 275.2

Alberta

Annual distance -- 80000 km.

Paved Road	Gravel Road
39000 kg.	39000 kg.
19855 kg.	19855 kg.
4964 tonnes	4964 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

8 8273
 8 18848
 8 8
 8 7024

8 8273
 8 8
 8 26420
 8 8985

Gravel Roads

```
Tractor variable costs
Driver
Fuel
Repairs
Cleaning
Transport
Tires
Total tractor variable
```

Total Cost \$	Cost per Running Hour \$	Cost per km.
43,670	26.36	54.6
12,220	7.37	15.2
12,102	7.35	15.2
3,717	0.43	0.9
3,149	1.90	3.9
3,688	2.23	4.6
75,634	45.64	94.6

Tractor fixed costs
Depreciation
Licences
Total tractor fixed

16,212	9.78	20.3
1,349	9.81	1.7
17,561	10.59	22.0

Tractor total

93.195 56.23 116.5

Trailer variable costs
Repairs
Cleaning
Transport
Tires
Total trailer variable

[illegible]

Trailer fixed costs	
Depreciation	
Licences	
Total trailer fixed	

3.043	2.332	4.0
3.020	2.332	4.0
3.023	2.332	4.0

Trailer total

14.315 0.64 17.0

Total vehicle costs

107.510 64.07 134.3

Insurance costs
Admin. and interest

4.418	2.67	5.5
20.618	12.44	25.6

Pickup and delivery
Profit
Total operating cost

14.727	0.09	10.4
147.273	00.07	104.0

```

.....
Imperial Equivalent Summary
.....
A.   Annual distance travelled --      49,712 mi.
      Gross vehicle weight   --      85,979 lbs.
      Average payload         --      43,772 lbs.
      Estimated annual quantity --       5,472 tons
.....
B.   Total Operating Cost per mile (cents/mile)
.....
      Paved roads              Gravel roads
.....
      254.3      Total Operating Cost      296.1
.....

```

Configuration -- 3 axle semi-trailer unit

Alberta

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
39000 kg.	39000 kg.
19855 kg.	19855 kg.
9928 tonnes	9928 tonnes
5.7 hrs.	6.6 hrs.
2841 hrs.	3314 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 16546	\$ 16546
\$ 37696	\$ 0
\$ 0	\$ 52839
\$ 14049	\$ 17971

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
68,201	24.04	42.7	Tractor variable costs			
22,820	8.08	14.5	Driver	87,356	26.36	54.6
22,820	8.08	14.5	Fuel	24,440	7.37	15.3
3,550	0.50	0.9	Repairs	24,363	7.35	15.2
3,550	0.50	0.9	Cleaning	1,433	0.43	0.9
3,550	0.50	0.9	Transport	3,149	0.95	2.0
3,550	0.50	0.9	Tires	7,375	2.23	4.6
121,000	42.95	78.5	Total tractor variable	148,116	44.69	92.6
			Tractor fixed costs			
16,212	5.71	10.1	Depreciation	16,212	4.89	10.1
1,349	0.47	0.8	Licences	1,349	0.41	0.8
17,561	6.18	10.9	Total tractor fixed	17,561	5.30	10.9
139,515	49.11	87.2	Tractor total	165,677	49.99	103.5
			Trailer variable costs			
8,079	2.37	4.2	Repairs	8,079	2.44	5.0
2,627	0.92	1.6	Cleaning	2,627	0.79	1.6
1,520	0.54	1.0	Transport	1,520	0.46	1.0
7,158	1.53	2.7	Tires	7,158	2.16	4.5
19,384	5.36	9.5	Total trailer variable	19,384	5.85	12.1
			Trailer fixed costs			
3,843	1.35	2.4	Depreciation	3,843	1.16	2.4
20	0.01	0.0	Licences	20	0.01	0.0
3,863	1.36	2.4	Total trailer fixed	3,863	1.17	2.4
19,000	6.72	11.9	Trailer total	23,247	7.02	14.5
150,595	55.83	99.1	Total vehicle costs	188,924	57.01	118.0
6,518	2.29	4.1	Insurance costs	7,764	2.34	4.9
30,410	10.71	19.0	Admin. and interest	36,232	10.93	22.6
21,726	7.65	13.6	Pickup and delivery	25,880	7.81	16.2
217,255	76.48	135.8	Profit			
			Total operating cost	258,800	78.09	161.7

Imperial Equivalent Summary

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 85,979 lbs.
 Average payload -- 43,772 lbs.
 Estimated annual quantity -- 10,944 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

218.5

Total Operating Cost

260.2

Configuration -- 5 axle semi-trailer unit

Alberta

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39000 kg.	39000 kg.
Average Payload	19855 kg.	19855 kg.
Estimated Annual Quantity	14891 tonnes	14891 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 24819	\$ 24819
Distance wage	\$ 56544	\$ 0
Hourly wage	\$ 0	\$ 79259
Wage burden	\$ 21073	\$ 26956

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
102,436	24.04	42.7	Tractor variable costs	131,034	26.36	54.6
36,660	8.60	15.3	Driver	36,660	7.37	15.3
30,454	7.15	12.7	Fuel	36,545	7.35	15.2
2,150	0.50	0.9	Repairs	2,150	0.43	0.9
3,149	0.74	1.3	Cleaning	3,149	0.63	1.3
6,507	1.53	2.7	Transport	11,063	2.23	4.6
181,356	42.56	75.6	Tires	220,601	44.37	91.9
			Total tractor variable			
16,212	3.80	6.8	Tractor fixed costs	16,212	3.26	6.8
1,349	0.32	0.6	Depreciation	1,349	0.27	0.6
17,561	4.12	7.4	Licences	17,561	3.53	7.4
			Total tractor fixed			
198,917	46.68	83.0	Tractor total	238,162	47.90	99.3
10,099	2.37	4.2	Trailer variable costs	12,110	2.44	5.0
3,941	0.92	1.6	Repairs	3,941	0.79	1.6
1,520	0.36	0.6	Cleaning	1,520	0.31	0.6
6,507	1.53	2.7	Transport	10,737	2.16	4.5
22,067	5.18	9.1	Tires	28,316	5.70	11.7
			Total trailer variable			
3,843	0.90	1.6	Trailer fixed costs	3,843	0.77	1.6
20			Depreciation	20		
3,863	0.90	1.6	Licences	3,863	0.77	1.6
			Total trailer fixed			
25,930	6.08	10.7	Trailer total	32,179	6.47	13.3
224,847	52.76	93.7	Total vehicle costs	270,341	54.37	112.6
9,240	2.17	3.9	Insurance costs	11,110	2.23	4.6
43,122	10.12	18.0	Admin. and interest	51,846	10.43	21.6
30,801	7.23	12.8	Pickup and delivery	37,033	7.45	15.4
308,010	72.28	128.4	Profit	370,330	74.48	154.2
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	85,979 lbs.
Average payload --	43,772 lbs.
Estimated annual quantity --	16,414 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

206.6 Total Operating Cost 248.2

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37500 kg.	37500 kg.
Average Payload	19355 kg.	19355 kg.
Estimated Annual Quantity	4839 tonnes	4839 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7403	\$ 7403
Distance wage	\$ 17056	\$ 0
Hourly wage	\$ 0	\$ 24150
Wage burden	\$ 6041	\$ 7796

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
30,500	21.47	38.1	Tractor variable costs	39,357	23.75	49.2
13,875	9.77	17.3	Driver	13,875	8.37	17.3
8,034	5.66	10.0	Fuel	9,641	5.82	12.1
522	0.37	0.7	Repairs	522	0.32	0.7
2,823	1.99	3.5	Cleaning	2,823	1.70	3.5
2,075	1.46	2.6	Transport	3,520	2.13	4.4
57,829	40.72	72.2	Tires	69,746	42.09	87.2
			Total tractor variable			
17,298	12.18	21.6	Tractor fixed costs	17,298	10.44	21.6
2,163	1.52	2.7	Depreciation	2,163	1.31	2.7
19,461	13.70	24.3	Licences	19,461	11.75	24.3
			Total tractor fixed			
77,290	54.42	96.5	Tractor total	89,207	53.84	111.5
4,020	2.84	5.0	Trailer variable costs	4,834	2.92	6.0
746	0.53	0.9	Repairs	746	0.45	0.9
869	0.61	1.1	Cleaning	869	0.52	1.1
1,760	1.24	2.2	Transport	2,917	1.76	3.6
7,411	5.22	9.2	Tires	9,366	5.65	11.6
			Total trailer variable			
4,112	2.90	5.1	Trailer fixed costs	4,112	2.48	5.1
32	0.02		Depreciation	32	0.02	
4,144	2.92	5.1	Licences	4,144	2.50	5.1
			Total trailer fixed			
11,555	8.14	14.3	Trailer total	13,510	8.15	16.7
88,845	62.56	110.8	Total vehicle costs	102,717	61.99	128.2
3,651	2.57	4.6	Insurance costs	4,221	2.55	5.3
17,039	12.00	21.3	Admin. and interest	19,699	11.89	24.6
12,171	8.57	15.2	Pickup and delivery	14,071	8.49	17.6
121,706	85.70	151.9	Profit	140,708	84.92	175.7
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	82,673 lbs.
Average payload --	42,670 lbs.
Estimated annual quantity --	5,334 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

244.5

Total Operating Cost 202.8

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37500 kg.	37500 kg.
Average Payload	19355 kg.	19355 kg.
Estimated Annual Quantity	9678 tonnes	9678 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 14807	\$ 14807
Distance wage	\$ 34112	\$ 0
Hourly wage	\$ 0	\$ 48315
Wage burden	\$ 12083	\$ 15591

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
61,002	21.47	38.1	Tractor variable costs	70,713	23.75	49.2
27,750	9.77	17.3	Driver	27,750	8.37	17.3
16,069	5.66	10.0	Fuel	19,282	5.82	12.1
1,045	0.37	0.7	Repairs	1,045	0.32	0.7
2,823	0.99	1.8	Cleaning	2,823	0.85	1.8
4,150	1.46	2.6	Transport	7,055	2.13	4.4
112,839	39.72	70.5	Tires	136,668	41.24	85.5
			Total tractor variable			
17,298	6.09	10.8	Tractor fixed costs	17,298	5.22	10.8
2,163	0.76	1.4	Depreciation	2,163	0.65	1.4
19,461	6.85	12.2	Licences	19,461	5.87	12.2
			Total tractor fixed			
132,300	46.57	82.7	Tractor total	156,129	47.11	97.7
			Trailer variable costs			
8,056	2.84	5.0	Repairs	9,667	2.92	6.0
1,493	0.53	0.9	Cleaning	1,493	0.45	0.9
869	0.31	0.5	Transport	869	0.26	0.5
3,535	1.24	2.2	Tires	5,833	1.76	3.6
13,953	4.92	8.6	Total trailer variable	17,862	5.39	11.0
			Trailer fixed costs			
4,112	1.45	2.6	Depreciation	4,112	1.24	2.6
32	0.01		Licences	32	0.01	
4,144	1.46	2.6	Total trailer fixed	4,144	1.25	2.6
			Trailer total	22,006	6.64	13.6
150,397	52.95	93.9	Total vehicle costs	178,135	53.75	111.3
6,181	2.18	3.9	Insurance costs	7,321	2.21	4.6
28,843	10.15	18.0	Admin. and interest	34,163	10.31	21.4
20,602	7.25	12.9	Pickup and delivery	24,402	7.36	15.3
206,023	72.53	128.7	Profit	244,021	73.63	152.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	82,673 lbs.
Average payload --	42,670 lbs.
Estimated annual quantity --	10,668 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

207.1 Total Operating Cost 245.6

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37500 kg.	37500 kg.
Average Payload	19355 kg.	19355 kg.
Estimated Annual Quantity	14516 tonnes	14516 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 22210	\$ 22210
Distance wage	\$ 51168	\$ 0
Hourly wage	\$ 0	\$ 72473
Wage burden	\$ 18124	\$ 23387

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
91,502	21.47	38.1	Tractor variable costs			
41,626	9.77	17.3	Driver	118,070	23.75	49.2
24,103	5.66	10.0	Fuel	41,626	8.37	17.3
1,567	0.37	0.7	Repairs	28,923	5.82	12.1
2,823	0.66	1.2	Cleaning	1,567	0.32	0.7
6,225	1.46	2.6	Transport	2,823	0.57	1.2
167,846	39.39	69.9	Tires	10,583	2.13	4.4
			Total tractor variable	203,592	40.96	84.9
			Tractor fixed costs			
17,298	4.06	7.2	Depreciation	17,298	3.48	7.2
2,163	0.51	0.9	Licences	2,163	0.44	0.9
19,461	4.57	8.1	Total tractor fixed	19,461	3.92	8.1
187,307	43.96	78.0	Tractor total	223,053	44.88	93.0
			Trailer variable costs			
12,084	2.84	5.0	Repairs	14,501	2.92	6.0
2,239	0.53	0.9	Cleaning	2,239	0.45	0.9
869	0.20	0.4	Transport	869	0.17	0.4
5,303	1.24	2.2	Tires	8,750	1.76	3.6
20,495	4.81	8.5	Total trailer variable	26,359	5.30	10.9
			Trailer fixed costs			
4,112	0.97	1.7	Depreciation	4,112	0.83	1.7
32	0.01		Licences	32	0.01	
4,144	0.98	1.7	Total trailer fixed	4,144	0.84	1.7
24,639	5.79	10.2	Trailer total	30,503	6.14	12.6
211,946	49.75	88.2	Total vehicle costs	253,556	51.02	105.6
8,710	2.04	3.6	Insurance costs	10,420	2.10	4.3
40,647	9.54	16.9	Admin. and interest	48,627	9.78	20.3
29,034	6.81	12.1	Pickup and delivery			
290,337	68.14	120.8	Profit	34,734	6.99	14.5
			Total operating cost	347,337	69.89	144.7

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 82,673 lbs.
 Average payload -- 42,670 lbs.
 Estimated annual quantity -- 16,001 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

194.4 Total Operating Cost 232.9

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	19055 kg.	19055 kg.
Estimated Annual Quantity	4764 tonnes	4764 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7289	\$ 7289
Distance wage	\$ 17816	\$ 0
Hourly wage	\$ 0	\$ 24100
Wage burden	\$ 6527	\$ 8161

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,632	22.27	39.5	Tractor variable costs			
14,789	10.41	18.5	Driver	39,550	23.87	49.4
8,251	5.81	10.3	Fuel	14,789	8.92	18.5
1,003	0.71	1.3	Repairs	9,902	5.98	12.4
2,714	1.91	3.4	Cleaning	1,003	0.61	1.3
2,192	1.54	2.7	Transport	2,714	1.64	3.4
60,581	42.65	75.7	Tires	3,726	2.25	4.7
			Total tractor variable	71,684	43.27	89.7
			Tractor fixed costs			
17,266	12.16	21.6	Depreciation	17,266	10.42	21.6
2,202	1.55	2.8	Licences	2,202	1.33	2.8
19,468	13.71	24.4	Total tractor fixed	19,468	11.75	24.4
80,049	56.36	100.1	Tractor total	91,152	55.02	114.1
			Trailer variable costs			
3,724	2.62	4.7	Repairs	4,469	2.70	5.6
1,087	0.77	1.4	Cleaning	1,087	0.66	1.4
869	0.61	1.1	Transport	869	0.52	1.1
1,768	1.24	2.2	Tires	2,917	1.76	3.6
7,448	5.24	9.4	Total trailer variable	9,342	5.64	11.7
			Trailer fixed costs			
4,112	2.90	5.1	Depreciation	4,112	2.48	5.1
10	0.01		Licences	10	0.01	
4,122	2.91	5.1	Total trailer fixed	4,122	2.49	5.1
11,570	8.15	14.5	Trailer total	13,464	8.13	16.8
91,619	64.51	114.6	Total vehicle costs	104,616	63.15	130.9
3,765	2.65	4.7	Insurance costs	4,299	2.59	5.4
17,571	12.37	22.0	Admin. and interest	20,063	12.11	25.1
12,551	8.84	15.7	Pickup and delivery			
125,506	88.37	157.0	Profit	14,331	8.65	17.9
			Total operating cost	143,309	86.50	179.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	42,009 lbs.
Estimated annual quantity --	5,251 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

252.7 Total Operating Cost 288.5

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	19055 kg.	19055 kg.
Estimated Annual Quantity	9528 tonnes	9528 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 14577	\$ 14577
Distance wage	\$ 35632	\$ 0
Hourly wage	\$ 0	\$ 48201
Wage burden	\$ 13054	\$ 16322

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
63,263	22.27	39.5	Tractor variable costs			
29,578	10.41	18.5	Driver	79,100	23.87	49.4
16,503	5.81	10.3	Fuel	29,578	8.92	18.5
2,006	0.71	1.3	Repairs	19,803	5.98	12.4
2,714	0.96	1.7	Cleaning	2,006	0.61	1.3
4,384	1.54	2.7	Transport	2,714	0.82	1.7
118,448	41.70	74.0	Tires	7,452	2.25	4.7
			Total tractor variable	140,653	42.45	88.0
17,266	6.08	10.8	Tractor fixed costs			
2,202	0.78	1.4	Depreciation	17,266	5.21	10.8
19,468	6.86	12.2	Licences	2,202	0.66	1.4
			Total tractor fixed	19,468	5.87	12.2
137,916	48.56	86.2	Tractor total	160,121	48.32	100.2
7,448	2.62	4.7	Trailer variable costs			
2,174	0.77	1.4	Repairs	8,938	2.70	5.6
869	0.31	0.5	Cleaning	2,174	0.66	1.4
3,535	1.24	2.2	Transport	869	0.26	0.5
14,026	4.94	8.8	Tires	5,833	1.76	3.6
			Total trailer variable	17,814	5.38	11.1
4,112	1.45	2.6	Trailer fixed costs			
10			Depreciation	4,112	1.24	2.6
4,122	1.45	2.6	Licences	10		
			Total trailer fixed	4,122	1.24	2.6
18,148	6.39	11.4	Trailer total	21,936	6.62	13.7
156,064	54.95	97.6	Total vehicle costs	182,057	54.94	113.9
6,414	2.26	4.0	Insurance costs	7,482	2.26	4.7
29,930	10.54	18.7	Admin. and interest	34,915	10.54	21.8
21,379	7.53	13.4	Pickup and delivery			
213,787	75.28	133.7	Profit	24,939	7.53	15.6
			Total operating cost	249,393	75.27	156.0

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	42,009 lbs.
Estimated annual quantity --	10,503 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

215.2 Total Operating Cost 251.1

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	19055 kg.	19055 kg.
Estimated Annual Quantity	14291 tonnes	14291 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 21866	\$ 21866
Distance wage	\$ 53448	\$ 0
Hourly wage	\$ 0	\$ 72301
Wage burden	\$ 19582	\$ 24483

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
94,896	22.27	39.5	Tractor variable costs			
44,367	10.41	18.5	Driver	118,650	23.87	49.4
24,754	5.81	10.3	Fuel	44,367	8.92	18.5
3,010	0.71	1.3	Repairs	29,705	5.98	12.4
2,714	0.64	1.1	Cleaning	3,010	0.61	1.3
6,576	1.54	2.7	Transport	2,714	0.55	1.1
176,317	41.38	73.4	Tires	11,179	2.25	4.7
			Total tractor variable	209,625	42.18	87.4
17,266	4.05	7.2	Tractor fixed costs			
2,202	0.52	0.9	Depreciation	17,266	3.47	7.2
19,468	4.57	8.1	Licences	2,202	0.44	0.9
			Total tractor fixed	19,468	3.91	8.1
195,785	45.95	81.5	Tractor total	229,093	46.09	95.5
11,172	2.62	4.7	Trailer variable costs			
3,260	0.77	1.4	Repairs	13,406	2.70	5.6
869	0.20	0.4	Cleaning	3,260	0.66	1.4
5,303	1.24	2.2	Transport	869	0.17	0.4
20,604	4.83	8.7	Tires	8,750	1.76	3.6
			Total trailer variable	26,285	5.29	11.0
4,112	0.97	1.7	Trailer fixed costs			
10			Depreciation	4,112	0.83	1.7
4,122	0.97	1.7	Licences	10		
			Total trailer fixed	4,122	0.83	1.7
24,726	5.80	10.4	Trailer total	30,407	6.12	12.7
220,511	51.75	91.9	Total vehicle costs	259,500	52.21	108.2
9,062	2.13	3.8	Insurance costs	10,664	2.15	4.4
42,290	9.93	17.6	Admin. and interest	49,767	10.01	20.7
30,207	7.09	12.6	Pickup and delivery			
302,070	70.90	125.9	Profit	35,548	7.15	14.8
			Total operating cost	355,479	71.52	148.1

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	42,009 lbs.
Estimated annual quantity --	15,753 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

202.6 Total Operating Cost 238.3

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	47200 kg.	47200 kg.
	Average Payload	22570 kg.	22570 kg.
	Estimated Annual Quantity	5643 tonnes	5643 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 8840	\$ 8840
	Distance wage	\$ 15792	\$ 0
	Hourly wage	\$ 0	\$ 25366
	Wage burden	\$ 6404	\$ 8894

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,036	21.85	38.8	Tractor variable costs			
15,700	11.05	19.6	Driver	43,100	26.01	53.9
9,663	6.80	12.1	Fuel	15,700	9.47	19.6
299	0.21	0.4	Repairs	11,595	7.00	14.5
1,954	1.38	2.4	Cleaning	299	0.18	0.4
2,333	1.64	2.9	Transport	1,954	1.18	2.4
60,985	42.93	76.2	Tires	3,967	2.39	5.0
			Total tractor variable	76,615	46.23	95.8
17,402	12.25	21.8	Tractor fixed costs			
2,006	1.41	2.5	Depreciation	17,402	10.50	21.8
19,408	13.66	24.3	Licences	2,006	1.21	2.5
			Total tractor fixed	19,408	11.71	24.3
80,393	56.59	100.5	Tractor total	96,023	57.94	120.1
4,560	3.21	5.7	Trailer variable costs			
1,505	1.06	1.9	Repairs	5,472	3.30	6.8
1,629	1.15	2.0	Cleaning	1,505	0.91	1.9
2,333	1.64	2.9	Transport	1,629	0.98	2.0
10,027	7.06	12.5	Tires	3,850	2.32	4.8
			Total trailer variable	12,456	7.51	15.5
4,150	2.92	5.2	Trailer fixed costs			
4,150	2.92	5.2	Depreciation	4,150	2.50	5.2
			Licences			
14,177	9.98	17.7	Total trailer fixed	4,150	2.50	5.2
94,570	66.57	118.2	Trailer total	16,606	10.01	20.7
3,886	2.74	4.9	Total vehicle costs	112,629	67.95	140.8
18,137	12.77	22.7	Insurance costs	4,629	2.79	5.8
12,955	9.12	16.2	Admin. and interest	21,600	13.04	27.0
129,548	91.20	162.0	Pickup and delivery			
			Profit	15,429	9.31	19.3
			Total operating cost	154,287	93.09	192.9

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	104,057 lbs.
	Average payload --	49,758 lbs.
	Estimated annual quantity --	6,220 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

260.7 Total Operating Cost 310.4

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	47200 kg.	47200 kg.
Average Payload	22570 kg.	22570 kg.
Estimated Annual Quantity	11285 tonnes	11285 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 17680	\$ 17680
Distance wage	\$ 31584	\$ 0
Hourly wage	\$ 0	\$ 50733
Wage burden	\$ 12809	\$ 17787

C. Total Operating Costs

P a v e d R o a d s G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
62,073	21.85	38.8	Tractor variable costs			
31,400	11.05	19.6	Driver	86,200	26.01	53.9
19,326	6.80	12.1	Fuel	31,400	9.47	19.6
597	0.21	0.4	Repairs	23,191	7.00	14.5
1,954	0.69	1.2	Cleaning	597	0.18	0.4
4,667	1.64	2.9	Transport	1,954	0.59	1.2
120,017	42.24	75.0	Tires	7,933	2.39	5.0
			Total tractor variable	151,275	45.64	94.6
			Tractor fixed costs			
17,402	6.13	10.9	Depreciation	17,402	5.25	10.9
2,006	0.71	1.3	Licences	2,006	0.61	1.3
19,408	6.84	12.2	Total tractor fixed	19,408	5.86	12.2
139,425	49.08	87.2	Tractor total	170,683	51.50	106.8
			Trailer variable costs			
9,120	3.21	5.7	Repairs	10,944	3.30	6.8
3,010	1.06	1.9	Cleaning	3,010	0.91	1.9
1,629	0.57	1.0	Transport	1,629	0.49	1.0
4,667	1.64	2.9	Tires	7,700	2.32	4.8
18,426	6.48	11.5	Total trailer variable	23,283	7.02	14.5
			Trailer fixed costs			
4,150	1.46	2.6	Depreciation	4,150	1.25	2.6
4,150	1.46	2.6	Licences	4,150	1.25	2.6
22,576	7.94	14.1	Total trailer fixed	27,433	8.27	17.1
162,001	57.02	101.3	Trailer total	27,433	8.27	17.1
			Total vehicle costs	198,116	59.77	123.9
6,658	2.34	4.2	Insurance costs	8,142	2.46	5.1
31,068	10.94	19.4	Admin. and interest	37,995	11.46	23.7
22,192	7.81	13.9	Pickup and delivery	27,139	8.19	17.0
221,919	78.11	138.8	Profit	271,392	81.88	169.7
			Total operating cost	271,392	81.88	169.7

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 99,424 mi. *
 * Gross vehicle weight -- 104,057 lbs. *
 * Average payload -- 49,758 lbs. *
 * Estimated annual quantity -- 12,439 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * P a v e d r o a d s G r a v e l r o a d s *
 *
 * 223.4 Total Operating Cost 273.1 *

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
47200 kg.	47200 kg.
22570 kg.	22570 kg.
16928 tonnes	16928 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 26520	\$ 26520
\$ 47376	\$ 0
\$ 0	\$ 76099
\$ 19213	\$ 26681

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
93,109	21.85	38.8	Tractor variable costs			
47,099	11.05	19.6	Driver	129,300	26.01	53.9
28,988	6.80	12.1	Fuel	47,099	9.47	19.6
896	0.21	0.4	Repairs	34,786	7.00	14.5
1,954	0.46	0.8	Cleaning	896	0.18	0.4
7,000	1.64	2.9	Transport	1,954	0.39	0.8
179,046	42.01	74.6	Tires	11,900	2.39	5.0
			Total tractor variable	225,935	45.44	94.2
17,402	4.08	7.3	Tractor fixed costs			
2,006	0.47	0.8	Depreciation	17,402	3.50	7.3
19,408	4.55	8.1	Licences	2,006	0.40	0.8
			Total tractor fixed	19,408	3.90	8.1
198,454	46.56	82.7	Tractor total	245,343	49.34	102.3
13,680	3.21	5.7	Trailer variable costs			
4,514	1.06	1.9	Repairs	16,416	3.30	6.8
1,629	0.38	0.7	Cleaning	4,514	0.91	1.9
7,000	1.64	2.9	Transport	1,629	0.33	0.7
26,823	6.29	11.2	Tires	11,550	2.32	4.8
			Total trailer variable	34,109	6.86	14.2
4,150	0.97	1.7	Trailer fixed costs			
4,150	0.97	1.7	Depreciation	4,150	0.83	1.7
			Licences			
30,973	7.26	12.9	Total trailer fixed	4,150	0.83	1.7
229,427	53.82	95.6	Trailer total	38,259	7.69	15.9
9,429	2.21	3.9	Total vehicle costs	283,602	57.03	118.2
44,000	10.33	18.3	Insurance costs	11,655	2.34	4.9
31,428	7.38	13.1	Admin. and interest	54,389	10.94	22.7
314,284	73.74	130.9	Pickup and delivery	38,850	7.82	16.2
			Profit			
			Total operating cost	388,496	78.13	162.0

 Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 104,057 lbs.
 Average payload -- 49,758 lbs.
 Estimated annual quantity -- 18,660 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

210.7 Total Operating Cost 260.7

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	20410 kg.	20410 kg.
Estimated Annual Quantity	5103 tonnes	5103 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1637 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7075	\$ 7075
Distance wage	\$ 13872	\$ 0
Hourly wage	\$ 0	\$ 22077
Wage burden	\$ 6075	\$ 8454

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,022	19.03	33.8	Tractor variable costs	37,606	22.69	47.0
18,378	12.94	23.0	Driver	18,378	11.09	23.0
9,771	6.88	12.2	Fuel	11,726	7.08	14.7
299	0.21	0.4	Repairs	299	0.18	0.4
2,389	1.68	3.0	Cleaning	2,389	1.44	3.0
2,263	1.59	2.8	Transport	3,846	2.32	4.8
60,122	42.33	75.2	Tires	74,244	44.80	92.9
			Total tractor variable			
17,490	12.31	21.9	Tractor fixed costs	17,490	10.55	21.9
2,070	1.46	2.6	Depreciation	2,070	1.25	2.6
19,560	13.77	24.5	Licences	19,560	11.80	24.5
			Total tractor fixed			
79,682	56.10	99.7	Tractor total	93,804	56.60	117.4
			Trailer variable costs			
4,604	3.38	6.0	Repairs	5,765	3.48	7.2
1,433	1.01	1.8	Cleaning	1,433	0.86	1.8
1,520	1.07	1.9	Transport	1,520	0.92	1.9
2,333	1.64	2.9	Tires	3,850	2.32	4.8
10,090	7.10	12.6	Total trailer variable	12,568	7.58	15.7
			Trailer fixed costs			
4,189	2.95	5.2	Depreciation	4,189	2.53	5.2
57	0.04	0.1	Licences	57	0.03	0.1
4,246	2.99	5.3	Total trailer fixed	4,246	2.56	5.3
			Trailer total	16,814	10.14	21.0
94,018	66.19	117.6	Total vehicle costs	110,618	66.74	138.4
3,864	2.72	4.8	Insurance costs	4,546	2.74	5.7
18,031	12.70	22.5	Admin. and interest	21,214	12.80	26.5
12,879	9.07	16.1	Pickup and delivery	15,153	9.14	18.9
128,792	90.68	161.0	Profit	151,531	91.42	189.5
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	106,923 lbs.
Average payload --	44,996 lbs.
Estimated annual quantity --	5,625 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

259.1

Total Operating Cost

305.0

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	20410 kg.	20410 kg.
Estimated Annual Quantity	10205 tonnes	10205 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 14151	\$ 14151
Distance wage	\$ 27744	\$ 0
Hourly wage	\$ 0	\$ 44155
Wage burden	\$ 12150	\$ 16909

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
54,045	19.03	33.0	Tractor variable costs			
36,757	12.94	23.0	Driver	75,215	22.70	47.0
19,543	6.88	12.2	Fuel	36,757	11.09	23.0
597	0.21	0.4	Repairs	23,451	7.08	14.7
2,389	0.84	1.5	Cleaning	597	0.18	0.4
4,525	1.59	2.8	Transport	2,389	0.72	1.5
117,856	41.49	73.7	Tires	7,693	2.32	4.8
			Total tractor variable	146,102	44.09	91.4
			Tractor fixed costs			
17,490	6.16	10.9	Depreciation	17,490	5.28	10.9
2,070	0.73	1.3	Licences	2,070	0.62	1.3
19,560	6.89	12.2	Total tractor fixed	19,560	5.90	12.2
137,416	48.38	85.9	Tractor total	165,662	49.99	103.6
			Trailer variable costs			
9,609	3.38	6.0	Repairs	11,530	3.48	7.2
2,866	1.01	1.8	Cleaning	2,866	0.86	1.8
1,520	0.54	1.0	Transport	1,520	0.46	1.0
4,667	1.64	2.9	Tires	7,700	2.32	4.8
18,662	6.57	11.7	Total trailer variable	23,616	7.12	14.8
			Trailer fixed costs			
4,189	1.47	2.6	Depreciation	4,189	1.26	2.6
57	0.02		Licences	57	0.02	
4,246	1.49	2.6	Total trailer fixed	4,246	1.28	2.6
22,908	8.06	14.3	Trailer total	27,862	8.40	17.4
160,324	56.44	100.2	Total vehicle costs	193,524	58.39	121.0
6,589	2.32	4.1	Insurance costs	7,953	2.40	5.0
30,747	10.82	19.2	Admin. and interest	37,114	11.20	23.2
21,962	7.73	13.7	Pickup and delivery	26,510	8.00	16.6
219,622	77.31	137.2	Profit			
			Total operating cost	265,101	79.99	165.8

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	106,923 lbs.
Average payload --	44,996 lbs.
Estimated annual quantity --	11,249 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

220.8

Total Operating Cost 266.8

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	20410 kg.	20410 kg.
Estimated Annual Quantity	15300 tonnes	15300 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 21226	\$ 21226
Distance wage	\$ 41616	\$ 0
Hourly wage	\$ 0	\$ 66232
Wage burden	\$ 18224	\$ 25363

C. Total Operating Costs

Paved Roads			Gravel Roads			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
81,066	19.03	33.8	Driver	112,821	22.70	47.0
55,135	12.94	23.0	Fuel	55,135	11.09	23.0
29,314	6.88	12.2	Repairs	35,177	7.08	14.7
896	0.21	0.4	Cleaning	896	0.18	0.4
2,389	0.56	1.0	Transport	2,389	0.48	1.0
6,788	1.59	2.8	Tires	11,539	2.32	4.8
175,588	41.21	73.2	Total tractor variable	217,957	43.85	90.9
			Tractor fixed costs			
17,490	4.10	7.3	Depreciation	17,490	3.52	7.3
2,070	0.49	0.9	Licences	2,070	0.42	0.9
19,560	4.59	8.2	Total tractor fixed	19,560	3.94	8.2
195,148	45.80	81.4	Tractor total	237,517	47.79	99.1
			Trailer variable costs			
14,413	3.38	6.0	Repairs	17,295	3.48	7.2
4,299	1.01	1.8	Cleaning	4,299	0.86	1.8
1,520	0.36	0.6	Transport	1,520	0.31	0.6
7,000	1.64	2.9	Tires	11,550	2.32	4.8
27,232	6.39	11.3	Total trailer variable	34,664	6.97	14.4
			Trailer fixed costs			
4,189	0.98	1.7	Depreciation	4,189	0.84	1.7
57	0.01		Licences	57	0.01	
4,246	0.99	1.7	Total trailer fixed	4,246	0.85	1.7
31,478	7.38	13.0	Trailer total	38,910	7.82	16.1
226,626	53.18	94.4	Total vehicle costs	276,427	55.61	115.2
9,313	2.19	3.9	Insurance costs	11,360	2.29	4.7
43,462	10.20	18.1	Admin. and interest	53,813	10.66	22.1
			Pickup and delivery			
31,045	7.29	12.9	Profit	37,867	7.62	15.8
310,446	72.86	129.3	Total operating cost	378,667	76.16	157.8

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	106,923 lbs.
Average payload --	44,996 lbs.
Estimated annual quantity --	16,874 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

208.1

Total Operating Cost 253.9

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
40500 kg.	40500 kg.
18860 kg.	18860 kg.
4715 tonnes	4715 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 5737	\$ 5737
\$ 12424	\$ 0
\$ 0	\$ 19135
\$ 3868	\$ 5298

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
22,029	15.51	27.5	Tractor variable costs			
14,337	10.09	17.9	Driver	30,170	18.21	37.7
9,315	6.56	11.6	Fuel	14,337	8.65	17.9
179	0.13	0.2	Repairs	11,178	6.75	14.0
2,063	1.45	2.6	Cleaning	179	0.11	0.2
1,992	1.40	2.5	Transport	2,063	1.24	2.6
49,915	35.14	62.3	Tires	3,387	2.04	4.2
			Total tractor variable	61,314	37.00	76.6
			Tractor fixed costs			
17,904	12.61	22.4	Depreciation	17,904	10.80	22.4
1,342	0.94	1.7	Licences	1,342	0.81	1.7
19,246	13.55	24.1	Total tractor fixed	19,246	11.61	24.1
69,161	48.69	86.4	Tractor total	80,560	48.61	100.7
			Trailer variable costs			
4,845	2.85	5.1	Repairs	4,854	2.93	6.1
478	0.34	0.6	Cleaning	478	0.29	0.6
1,086	0.76	1.4	Transport	1,086	0.66	1.4
1,697	1.19	2.1	Tires	2,800	1.69	3.5
7,306	5.14	9.2	Total trailer variable	9,218	5.57	11.6
			Trailer fixed costs			
4,266	3.00	5.3	Depreciation	4,266	2.57	5.3
10	0.01	0.0	Licences	10	0.01	0.0
4,276	3.01	5.3	Total trailer fixed	4,276	2.58	5.3
11,582	8.15	14.5	Trailer total	13,494	8.15	16.9
80,743	56.84	100.9	Total vehicle costs	94,054	56.76	117.6
3,318	2.34	4.1	Insurance costs	3,865	2.33	4.8
15,485	10.90	19.4	Admin. and interest	18,038	10.89	22.5
			Pickup and delivery			
11,861	7.79	13.8	Profit	12,884	7.78	16.1
110,607	77.87	138.2	Total operating cost	128,841	77.76	161.0

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 89,286 lbs.
 Average payload -- 41,579 lbs.
 Estimated annual quantity -- 5,197 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

222.4

Total Operating Cost 259.1

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	18860 kg.	18860 kg.
Estimated Annual Quantity	9430 tonnes	9430 tonnes
Trip Running Time	5.7 hrs.	6.0 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 11473	\$ 11473
Distance wage	\$ 24848	\$ 0
Hourly wage	\$ 0	\$ 38270
Wage burden	\$ 7736	\$ 10595

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
44,057	15.51	27.5	Driver	60,338	18.21	37.7
28,674	10.09	17.9	Fuel	28,674	8.65	17.9
18,631	6.56	11.6	Repairs	22,357	6.75	14.0
358	0.13	0.2	Cleaning	358	0.11	0.2
2,063	0.73	1.3	Transport	2,063	0.62	1.3
3,984	1.40	2.5	Tires	6,773	2.04	4.2
97,767	34.42	61.0	Total tractor variable	120,563	36.38	75.3
			Tractor fixed costs			
17,904	6.30	11.2	Depreciation	17,904	5.40	11.2
1,342	0.47	0.8	Licences	1,342	0.40	0.8
19,246	6.77	12.0	Total tractor fixed	19,246	5.80	12.0
117,013	41.19	73.0	Tractor total	139,809	42.18	87.3
			Trailer variable costs			
8,091	2.85	5.1	Repairs	9,709	2.93	6.1
955	0.34	0.6	Cleaning	955	0.29	0.6
1,086	0.38	0.7	Transport	1,086	0.33	0.7
3,394	1.19	2.1	Tires	5,600	1.69	3.5
13,526	4.76	8.5	Total trailer variable	17,350	5.24	10.9
			Trailer fixed costs			
4,266	1.50	2.7	Depreciation	4,266	1.29	2.7
10			Licences	10		
4,276	1.50	2.7	Total trailer fixed	4,276	1.29	2.7
17,802	6.26	11.2	Trailer total	21,626	6.53	13.6
134,815	47.45	84.2	Total vehicle costs	161,435	48.71	100.9
5,540	1.95	3.5	Insurance costs	6,634	2.00	4.1
25,855	9.10	16.2	Admin. and interest	30,960	9.34	19.4
18,468	6.50	11.5	Pickup and delivery	22,114	6.67	13.8
184,678	65.00	115.4	Profit	221,143	66.72	138.2
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	41,579 lbs.
Estimated annual quantity --	10,395 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

185.7 Total Operating Cost 222.4

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	18860 kg.	18860 kg.
Estimated Annual Quantity	14145 tonnes	14145 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 17210	\$ 17210
Distance wage	\$ 37272	\$ 0
Hourly wage	\$ 0	\$ 57405
Wage burden	\$ 11605	\$ 15893

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
66,087	15.51	27.5	Tractor variable costs	90,508	10.21	37.7
43,011	10.09	17.9	Driver	43,011	8.65	17.9
27,946	6.56	11.6	Fuel	33,535	6.75	14.0
537	0.13	0.2	Repairs	537	0.11	0.2
2,063	0.48	0.9	Cleaning	2,063	0.41	0.9
5,976	1.40	2.5	Transport	10,160	2.04	4.2
145,620	34.17	60.6	Tires	179,814	36.17	74.9
			Total tractor variable			
17,904	4.20	7.5	Tractor fixed costs	17,904	3.60	7.5
1,342	0.31	0.6	Depreciation	1,342	0.27	0.6
19,246	4.51	8.1	Licences	19,246	3.87	8.1
			Total tractor fixed			
164,866	38.68	68.7	Tractor total	199,060	40.04	83.0
12,136	2.85	5.1	Trailer variable costs	14,563	2.93	6.1
1,433	0.34	0.6	Repairs	1,433	0.29	0.6
1,086	0.25	0.5	Cleaning	1,086	0.22	0.5
5,091	1.19	2.1	Transport	8,400	1.69	3.5
19,746	4.63	8.3	Tires	25,482	5.13	10.7
			Total trailer variable			
4,266	1.00	1.8	Trailer fixed costs	4,266	0.86	1.8
10			Depreciation	10		
4,276	1.00	1.8	Licences	4,276	0.86	1.8
			Total trailer fixed			
24,022	5.63	10.1	Trailer total	29,758	5.99	12.5
188,888	44.31	78.8	Total vehicle costs	228,818	46.03	95.5
7,763	1.82	3.2	Insurance costs	9,404	1.89	3.9
36,225	8.50	15.1	Admin. and interest	43,883	8.83	18.3
25,875	6.07	10.8	Pickup and delivery	31,345	6.31	13.1
258,751	60.70	107.9	Profit	313,450	63.06	130.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	41,579 lbs.
Estimated annual quantity --	15,592 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

173.6

Total Operating Cost 210.5

Configuration -- 5 axle semi-trailer unit

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	18860 kg.	18860 kg.
Estimated Annual Quantity	4715 tonnes	4715 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5737	\$ 5737
Distance wage	\$ 12424	\$ 0
Hourly wage	\$ 0	\$ 19135
Wage burden	\$ 3868	\$ 5298

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
22,029	15.51	27.5	Tractor variable costs	30,170	18.21	37.7
14,503	10.21	18.1	Driver	14,503	8.75	18.1
9,315	6.56	11.6	Fuel	11,178	6.75	14.0
179	0.13	0.2	Repairs	179	0.11	0.2
2,063	1.45	2.6	Cleaning	2,063	1.24	2.6
1,992	1.40	2.5	Transport	3,387	2.04	4.2
50,081	35.26	62.5	Tires	61,480	37.10	76.8
			Total tractor variable			
17,745	12.49	22.2	Tractor fixed costs	17,745	10.71	22.2
1,312	0.92	1.6	Depreciation	1,312	0.79	1.6
19,057	13.41	23.8	Licences	19,057	11.50	23.8
			Total tractor fixed			
69,130	48.67	86.3	Tractor total	80,537	48.60	100.6
			Trailer variable costs			
4,045	2.85	5.1	Repairs	4,054	2.93	6.1
478	0.34	0.6	Cleaning	478	0.29	0.6
1,086	0.76	1.4	Transport	1,086	0.66	1.4
1,697	1.19	2.1	Tires	2,800	1.69	3.5
7,306	5.14	9.2	Total trailer variable	9,218	5.57	11.6
			Trailer fixed costs			
4,227	2.98	5.3	Depreciation	4,227	2.55	5.3
25	0.02		Licences	25	0.02	
4,252	3.00	5.3	Total trailer fixed	4,252	2.57	5.3
			Trailer total	13,470	8.14	16.9
11,558	8.14	14.5	Total vehicle costs	94,007	56.74	117.5
80,696	56.81	100.8	Insurance costs	3,063	2.33	4.8
3,316	2.33	4.1	Admin. and interest	18,029	10.88	22.5
15,476	10.90	19.3	Pickup and delivery	12,878	7.77	16.1
11,054	7.78	13.0	Profit	128,777	77.72	160.9
110,542	77.82	138.0	Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	41,579 lbs.
Estimated annual quantity --	5,197 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

222.1 Total Operating Cost 250.9

Configuration -- 5 axle semi-trailer unit

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
40500 kg.	40500 kg.
18860 kg.	18860 kg.
9430 tonnes	9430 tonnes
5.7 hrs.	6.6 hrs.
2841 hrs.	3314 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 11473	\$ 11473
\$ 24848	\$ 0
\$ 0	\$ 38270
\$ 7736	\$ 10595

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
44,057	15.51	27.5	Tractor variable costs			
29,007	10.21	18.1	Driver	60,338	18.21	37.7
18,631	6.56	11.6	Fuel	29,007	8.75	18.1
358	0.13	0.2	Repairs	22,357	6.75	14.0
2,063	0.73	1.3	Cleaning	358	0.11	0.2
3,984	1.40	2.5	Transport	2,063	0.62	1.3
98,100	34.54	61.2	Tires	6,773	2.04	4.2
			Total tractor variable	120,896	36.48	75.5
17,745	6.25	11.1	Tractor fixed costs			
1,312	0.46	0.8	Depreciation	17,745	5.35	11.1
19,057	6.71	11.9	Licences	1,312	0.40	0.8
			Total tractor fixed	19,057	5.75	11.9
117,157	41.25	73.1	Tractor total	139,953	42.23	87.4
8,091	2.85	5.1	Trailer variable costs			
955	0.34	0.6	Repairs	9,709	2.93	6.1
1,086	0.38	0.7	Cleaning	955	0.29	0.6
3,394	1.19	2.1	Transport	1,086	0.33	0.7
13,526	4.76	8.5	Tires	5,600	1.69	3.5
			Total trailer variable	17,350	5.24	10.9
4,227	1.49	2.6	Trailer fixed costs			
25	0.01		Depreciation	4,227	1.28	2.6
4,252	1.50	2.6	Licences	25	0.01	
			Total trailer fixed	4,252	1.29	2.6
17,778	6.26	11.1	Trailer total	21,602	6.53	13.5
134,935	47.51	84.2	Total vehicle costs	161,555	48.76	100.9
5,545	1.95	3.5	Insurance costs	6,639	2.00	4.1
25,878	9.11	16.2	Admin. and interest	30,983	9.35	19.4
18,484	6.51	11.6	Pickup and delivery			
184,842	65.08	115.5	Profit	22,131	6.68	13.8
			Total operating cost	221,308	66.79	138.2

 Imperial Equivalent Summary

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 89,286 lbs.
 Average payload -- 41,579 lbs.
 Estimated annual quantity -- 10,395 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

185.9 Total Operating Cost 222.4

Configuration -- 5 axle semi-trailer unit

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	18860 kg.	18860 kg.
Estimated Annual Quantity	14145 tonnes	14145 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 17210	\$ 17210
Distance wage	\$ 37272	\$ 0
Hourly wage	\$ 0	\$ 57405
Wage burden	\$ 11605	\$ 15893

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
66,087	15.51	27.5	Tractor variable costs	90,508	18.21	37.7
43,510	10.21	18.1	Driver	43,510	8.75	18.1
27,946	6.56	11.6	Fuel	33,535	6.75	14.0
537	0.13	0.2	Repairs	537	0.11	0.2
2,063	0.48	0.9	Cleaning	2,063	0.41	0.9
5,976	1.40	2.5	Transport	10,160	2.04	4.2
146,119	34.29	60.8	Tires	180,313	36.27	75.1
			Total tractor variable			
17,745	4.16	7.4	Tractor fixed costs	17,745	3.57	7.4
1,312	0.31	0.5	Depreciation	1,312	0.26	0.5
19,057	4.47	7.9	Licences	19,057	3.83	7.9
			Total tractor fixed			
165,176	38.76	68.7	Tractor total	199,370	40.10	83.0
12,136	2.85	5.1	Trailer variable costs	14,563	2.93	6.1
1,433	0.34	0.6	Repairs	1,433	0.29	0.6
1,086	0.25	0.5	Cleaning	1,086	0.22	0.5
5,091	1.19	2.1	Transport	8,400	1.69	3.5
19,746	4.63	8.3	Tires	25,482	5.13	10.7
			Total trailer variable			
4,227	0.99	1.8	Trailer fixed costs	4,227	0.85	1.8
25	0.01		Depreciation	25	0.01	
4,252	1.00	1.8	Licences	4,252	0.86	1.8
			Total trailer fixed			
23,998	5.63	10.1	Trailer total	29,734	5.99	12.5
189,174	44.39	78.8	Total vehicle costs	229,104	46.09	95.5
7,774	1.82	3.2	Insurance costs	9,415	1.89	3.9
36,280	8.51	15.1	Admin. and interest	43,938	8.84	18.3
25,914	6.08	10.8	Pickup and delivery	31,384	6.31	13.1
259,142	60.80	107.9	Profit	313,841	63.13	130.8
			Total operating cost			

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	41,579 lbs.
Estimated annual quantity --	15,592 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

173.6 Total Operating Cost 210.5

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	18860 kg.	18860 kg.
Estimated Annual Quantity	4715 tonnes	4715 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4715	\$ 4715
Distance wage	\$ 10440	\$ 0
Hourly wage	\$ 0	\$ 15727
Wage burden	\$ 3228	\$ 4354

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
18,383	12.94	23.0	Tractor variable costs			
14,334	10.09	17.9	Driver	24,796	14.96	31.0
9,315	6.56	11.6	Fuel	14,334	8.65	17.9
179	0.13	0.2	Repairs	11,178	6.75	14.0
2,063	1.45	2.6	Cleaning	179	0.11	0.2
1,992	1.40	2.5	Transport	2,063	1.24	2.6
46,266	32.57	57.8	Tires	3,387	2.04	4.2
			Total tractor variable	55,937	33.75	69.9
			Tractor fixed costs			
17,745	12.49	22.2	Depreciation	17,745	10.71	22.2
1,173	0.83	1.5	Licences	1,173	0.71	1.5
18,918	13.32	23.7	Total tractor fixed	18,918	11.42	23.7
65,184	45.89	81.5	Tractor total	74,855	45.17	93.6
			Trailer variable costs			
4,045	2.85	5.1	Repairs	4,854	2.93	6.1
478	0.34	0.6	Cleaning	478	0.29	0.6
1,086	0.76	1.4	Transport	1,086	0.66	1.4
1,697	1.19	2.1	Tires	2,800	1.69	3.5
7,306	5.14	9.2	Total trailer variable	9,218	5.57	11.6
			Trailer fixed costs			
4,227	2.98	5.3	Depreciation	4,227	2.55	5.3
25	0.02		Licences	25	0.02	
4,252	3.00	5.3	Total trailer fixed	4,252	2.57	5.3
11,558	8.14	14.5	Trailer total	13,470	8.14	16.9
76,742	54.03	96.0	Total vehicle costs	88,325	53.31	110.5
3,154	2.22	3.9	Insurance costs	3,630	2.19	4.5
14,718	10.36	18.4	Admin. and interest	16,939	10.22	21.2
10,513	7.40	13.1	Pickup and delivery			
105,127	74.01	131.4	Profit	12,099	7.30	15.1
			Total operating cost	120,993	73.02	151.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	41,579 lbs.
Estimated annual quantity --	5,197 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

211.5

Total Operating Cost

243.5

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		40500 kg.	40500 kg.
Average Payload		18860 kg.	18860 kg.
Estimated Annual Quantity		9430 tonnes	9430 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.
B. Driver Costs			
Load - unload time cost		\$ 9430	\$ 9430
Distance wage		\$ 20880	\$ 0
Hourly wage		\$ 0	\$ 31455
Wage burden		\$ 6456	\$ 8708

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
36,766	12.94	23.0	Driver	49,593	14.96	31.0
28,668	10.09	17.9	Fuel	28,668	8.65	17.9
18,631	6.56	11.6	Repairs	22,357	6.75	14.0
358	0.13	0.2	Cleaning	358	0.11	0.2
2,063	0.73	1.3	Transport	2,063	0.62	1.3
3,984	1.40	2.5	Tires	6,773	2.04	4.2
90,470	31.85	56.5	Total tractor variable	109,812	33.13	68.6
			Tractor fixed costs			
17,745	6.25	11.1	Depreciation	17,745	5.35	11.1
1,173	0.41	0.7	Licences	1,173	0.35	0.7
18,918	6.66	11.8	Total tractor fixed	18,918	5.70	11.8
109,388	38.51	68.3	Tractor total	128,730	38.83	80.4
			Trailer variable costs			
8,091	2.85	5.1	Repairs	9,709	2.93	6.1
955	0.34	0.6	Cleaning	955	0.29	0.6
1,086	0.38	0.7	Transport	1,086	0.33	0.7
3,394	1.19	2.1	Tires	5,600	1.69	3.5
13,526	4.76	8.5	Total trailer variable	17,350	5.24	10.9
			Trailer fixed costs			
4,227	1.49	2.6	Depreciation	4,227	1.28	2.6
25	0.01		Licences	25	0.01	
4,252	1.50	2.6	Total trailer fixed	4,252	1.29	2.6
17,778	6.26	11.1	Trailer total	21,602	6.53	13.5
127,166	44.77	79.4	Total vehicle costs	150,332	45.36	93.9
5,226	1.84	3.3	Insurance costs	6,178	1.86	3.9
24,388	8.59	15.2	Admin. and interest	28,831	8.70	18.0
17,420	6.13	10.9	Pickup and delivery	20,593	6.21	12.9
174,200	61.33	108.8	Profit	205,934	62.13	128.7
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	99,424 mi.
	Gross vehicle weight --	89,286 lbs.
	Average payload --	41,579 lbs.
	Estimated annual quantity --	10,395 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

175.1 Total Operating Cost 207.1

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Dry Freight

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	40500 kg.	40500 kg.
	Average Payload	18860 kg.	18860 kg.
	Estimated Annual Quantity	14145 tonnes	14145 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 14145	\$ 14145
	Distance wage	\$ 31320	\$ 0
	Hourly wage	\$ 0	\$ 47182
	Wage burden	\$ 9684	\$ 13063

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
55,149	12.94	23.0	Driver	74,390	14.96	31.0
43,002	10.09	17.9	Fuel	43,002	8.65	17.9
27,946	6.56	11.6	Repairs	33,535	6.75	14.0
537	0.13	0.2	Cleaning	537	0.11	0.2
2,063	0.48	0.9	Transport	2,063	0.41	0.9
5,976	1.40	2.5	Tires	10,160	2.04	4.2
134,673	31.60	56.1	Total tractor variable	163,687	32.92	68.2
			Tractor fixed costs			
17,745	4.16	7.4	Depreciation	17,745	3.57	7.4
1,173	0.28	0.5	Licences	1,173	0.24	0.5
18,918	4.44	7.9	Total tractor fixed	18,918	3.81	7.9
153,591	36.04	64.0	Tractor total	182,605	36.73	76.1
			Trailer variable costs			
12,136	2.85	5.1	Repairs	14,563	2.93	6.1
1,433	0.34	0.6	Cleaning	1,433	0.29	0.6
1,086	0.25	0.5	Transport	1,086	0.22	0.5
5,091	1.19	2.1	Tires	8,400	1.69	3.5
19,746	4.63	8.3	Total trailer variable	25,482	5.13	10.7
			Trailer fixed costs			
4,227	0.99	1.8	Depreciation	4,227	0.85	1.8
25	0.01		Licences	25	0.01	
4,252	1.00	1.8	Total trailer fixed	4,252	0.86	1.8
23,998	5.63	10.1	Trailer total	29,734	5.99	12.5
177,589	41.67	74.1	Total vehicle costs	212,339	42.72	88.6
7,298	1.71	3.0	Insurance costs	8,726	1.76	3.6
34,058	7.99	14.2	Admin. and interest	40,723	8.19	17.0
24,327	5.71	10.1	Pickup and delivery			
243,272	57.08	101.4	Profit	29,088	5.85	12.1
			Total operating cost	290,876	58.52	121.3

***** Imperial Equivalent Summary *****			
A.	Annual distance travelled --	149,136 mi.	
	Gross vehicle weight --	89,286 lbs.	
	Average payload --	41,579 lbs.	
	Estimated annual quantity --	15,592 tons	
B.	Total Operating Cost per mile (cents/mile)		
	P a v e d r o a d s	G r a v e l r o a d s	
	163.2	Total Operating Cost 195.2	

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	40500 kg.	40500 kg.
	Average Payload	21360 kg.	21360 kg.
	Estimated Annual Quantity	5340 tonnes	5340 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 5696	\$ 5696
	Distance wage	\$ 11432	\$ 0
	Hourly wage	\$ 0	\$ 17109
	Wage burden	\$ 3648	\$ 4858

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
20,776	14.63	26.0	Driver	27,663	16.69	34.6
16,165	11.38	20.2	Fuel	16,165	9.76	20.2
10,211	7.19	12.8	Repairs	12,253	7.39	15.3
299	0.21	0.4	Cleaning	299	0.18	0.4
1,846	1.30	2.3	Transport	1,846	1.11	2.3
1,992	1.40	2.5	Tires	3,387	2.04	4.2
51,289	36.11	64.2	Total tractor variable	61,613	37.17	77.0
			Tractor fixed costs			
18,096	12.74	22.6	Depreciation	18,096	10.92	22.6
1,450	1.02	1.8	Licences	1,450	0.88	1.8
19,546	13.76	24.4	Total tractor fixed	19,546	11.80	24.4
70,835	49.87	88.6	Tractor total	81,159	48.97	101.4
			Trailer variable costs			
3,827	2.69	4.8	Repairs	4,593	2.77	5.7
358	0.25	0.4	Cleaning	358	0.22	0.4
977	0.69	1.2	Transport	977	0.59	1.2
2,140	1.51	2.7	Tires	3,530	2.13	4.4
7,302	5.14	9.1	Total trailer variable	9,458	5.71	11.7
			Trailer fixed costs			
4,304	3.03	5.4	Depreciation	4,304	2.60	5.4
25	0.02		Licences	25	0.02	
4,329	3.05	5.4	Total trailer fixed	4,329	2.62	5.4
11,631	8.19	14.5	Trailer total	13,787	8.33	17.1
82,466	58.06	103.1	Total vehicle costs	94,946	57.30	118.5
3,389	2.39	4.2	Insurance costs	3,902	2.35	4.9
15,815	11.13	19.8	Admin. and interest	18,209	10.99	22.8
			Pickup and delivery			
11,297	7.95	14.1	Profit	13,006	7.85	16.3
112,967	79.53	141.2	Total operating cost	130,063	78.49	162.5

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 49,712 mi. *

* Gross vehicle weight -- 89,286 lbs. *

* Average payload -- 47,090 lbs. *

* Estimated annual quantity -- 5,886 tons *

* B. Total Operating Cost per mile (cents/mile) *

* Paved roads Gravel roads *

* 227.2 Total Operating Cost 261.5 *

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		40500 kg.	40500 kg.
Average Payload		21360 kg.	21360 kg.
Estimated Annual Quantity		10680 tonnes	10680 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.
B. Driver Costs			
Load - unload time cost		\$ 11392	\$ 11392
Distance wage		\$ 22864	\$ 0
Hourly wage		\$ 0	\$ 34219
Wage burden		\$ 7297	\$ 9715

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
41,553	14.63	26.0	Tractor variable costs			
32,330	11.38	20.2	Driver	55,326	16.69	34.6
20,422	7.19	12.8	Fuel	32,330	9.76	20.2
597	0.21	0.4	Repairs	24,507	7.39	15.3
1,846	0.65	1.2	Cleaning	597	0.18	0.4
3,984	1.40	2.5	Transport	1,846	0.56	1.2
100,732	35.46	63.1	Tires	6,773	2.04	4.2
			Total tractor variable	121,379	36.62	75.9
18,096	6.37	11.3	Tractor fixed costs			
1,450	0.51	0.9	Depreciation	18,096	5.46	11.3
19,546	6.88	12.2	Licences	1,450	0.44	0.9
			Total tractor fixed	19,546	5.90	12.2
120,278	42.34	75.3	Tractor total	140,925	42.52	88.1
7,654	2.69	4.8	Trailer variable costs			
717	0.25	0.4	Repairs	9,185	2.77	5.7
977	0.34	0.6	Cleaning	717	0.22	0.4
4,279	1.51	2.7	Transport	977	0.29	0.6
13,627	4.79	8.5	Tires	7,061	2.13	4.4
			Total trailer variable	17,940	5.41	11.1
4,304	1.52	2.7	Trailer fixed costs			
25	0.01		Depreciation	4,304	1.30	2.7
4,329	1.53	2.7	Licences	25	0.01	
			Total trailer fixed	4,329	1.31	2.7
17,956	6.32	11.2	Trailer total	22,269	6.72	13.8
138,234	48.66	86.5	Total vehicle costs	163,194	49.24	101.9
5,681	2.00	3.6	Insurance costs	6,707	2.02	4.2
26,511	9.33	16.6	Admin. and interest	31,297	9.44	19.6
18,936	6.67	11.8	Pickup and delivery			
189,362	66.66	118.5	Profit	22,355	6.75	14.0
			Total operating cost	223,553	67.45	139.7

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	47,090 lbs.
Estimated annual quantity --	11,773 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

190.7

Total Operating Cost 224.8

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	21360 kg.	21360 kg.
Estimated Annual Quantity	16020 tonnes	16020 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 17088	\$ 17088
Distance wage	\$ 34296	\$ 0
Hourly wage	\$ 0	\$ 51328
Wage burden	\$ 10945	\$ 14573

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
62,329	14.63	26.0	Tractor variable costs			
48,495	11.38	20.2	Driver	82,989	16.69	34.6
30,633	7.19	12.0	Fuel	48,495	9.76	20.2
896	0.21	0.4	Repairs	36,760	7.39	15.3
1,846	0.43	0.8	Cleaning	896	0.18	0.4
5,976	1.40	2.5	Transport	1,846	0.37	0.8
150,175	35.24	62.7	Tires	10,160	2.04	4.2
			Total tractor variable	181,146	36.43	75.5
18,096	4.25	7.5	Tractor fixed costs			
1,450	0.34	0.6	Depreciation	18,096	3.64	7.5
19,546	4.59	8.1	Licences	1,450	0.29	0.6
			Total tractor fixed	19,546	3.93	8.1
169,721	39.83	70.8	Tractor total	200,692	40.36	83.6
11,481	2.69	4.8	Trailer variable costs			
1,075	0.25	0.4	Repairs	13,778	2.77	5.7
977	0.23	0.4	Cleaning	1,075	0.22	0.4
6,419	1.51	2.7	Transport	977	0.20	0.4
19,952	4.68	8.3	Tires	10,591	2.13	4.4
			Total trailer variable	26,421	5.32	10.9
4,304	1.01	1.8	Trailer fixed costs			
25	0.01	0.0	Depreciation	4,304	0.87	1.8
4,329	1.02	1.8	Licences	25	0.01	0.0
			Total trailer fixed	4,329	0.88	1.8
24,281	5.70	10.1	Trailer total	30,750	6.20	12.7
194,002	45.53	80.9	Total vehicle costs	231,442	46.56	96.3
7,973	1.87	3.3	Insurance costs	9,511	1.91	4.0
37,206	8.73	15.5	Admin. and interest	44,386	8.93	18.5
26,576	6.24	11.1	Pickup and delivery	31,704	6.38	13.2
265,757	62.37	110.8	Profit	317,043	63.78	132.0
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	47,090 lbs.
Estimated annual quantity --	17,659 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

178.3

Total Operating Cost 212.4

Configuration -- 5 axle semi-trailer unit

N.W.T.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37000 kg.	37000 kg.
Average Payload	18355 kg.	18355 kg.
Estimated Annual Quantity	4589 tonnes	4589 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7622	\$ 7622
Distance wage	\$ 19288	\$ 0
Hourly wage	\$ 0	\$ 26020
Wage burden	\$ 6862	\$ 8579

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
33,772	23.78	42.2	Tractor variable costs			
16,436	11.57	20.5	Driver	42,221	25.48	52.8
9,880	6.96	12.4	Fuel	16,436	9.92	20.5
597	0.42	0.7	Repairs	11,856	7.15	14.8
3,149	2.22	3.9	Cleaning	597	0.36	0.7
3,535	2.49	4.4	Transport	3,149	1.90	3.9
67,369	47.44	84.1	Tires	9,010	5.63	7.5
			Total tractor variable	80,269	48.44	100.2
16,244	11.44	20.3	Tractor fixed costs			
816	0.57	1.0	Depreciation	16,244	9.80	20.3
17,060	12.01	21.3	Licences	816	0.49	1.0
			Total tractor fixed	17,060	10.29	21.3
84,429	59.45	105.4	Tractor total	97,329	58.73	121.5
4,804	3.38	6.0	Trailer variable costs			
717	0.50	0.9	Repairs	5,765	3.48	7.2
1,520	1.07	1.9	Cleaning	717	0.43	0.9
3,458	2.43	4.3	Transport	1,520	0.92	1.9
10,499	7.38	13.1	Tires	5,706	3.44	7.1
			Total trailer variable	13,708	8.27	17.1
3,843	2.71	4.8	Trailer fixed costs			
28	0.02		Depreciation	3,843	2.32	4.8
3,871	2.73	4.8	Licences	28	0.02	
			Total trailer fixed	3,871	2.34	4.8
14,370	10.11	17.9	Trailer total	17,579	10.61	21.9
98,799	69.56	123.3	Total vehicle costs	114,908	69.34	143.4
4,060	2.86	5.1	Insurance costs	4,722	2.85	5.9
10,948	13.34	23.7	Admin. and interest	22,037	13.30	27.5
13,534	9.53	16.9	Pickup and delivery			
135,341	95.29	169.0	Profit	15,741	9.50	19.7
			Total operating cost	157,408	94.99	196.5

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	81,570 lbs.
Average payload --	40,465 lbs.
Estimated annual quantity --	5,050 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

272.0

Total Operating Cost

316.2

Configuration -- 5 axle semi-trailer unit

N.W.T.

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37000 kg.	37000 kg.
Average Payload	18355 kg.	18355 kg.
Estimated Annual Quantity	9178 tonnes	9178 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 15245	\$ 15245
Distance wage	\$ 38576	\$ 0
Hourly wage	\$ 0	\$ 52840
Wage burden	\$ 13724	\$ 17158

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Cost per Running Hour \$	Cost per km.
			Tractor variable costs		
67,545	23.78	42.2	Driver	84,443	25.48
32,871	11.57	20.5	Fuel	32,871	10.22
19,760	6.96	12.4	Repairs	23,712	7.35
1,194	0.42	0.7	Cleaning	1,194	0.36
3,149	1.11	2.0	Transport	3,149	0.95
7,071	2.49	4.4	Tires	7,071	2.15
131,590	46.33	82.2	Total tractor variable	152,430	47.49
			Tractor fixed costs		
16,244	5.72	10.2	Depreciation	16,244	4.98
816	0.29	0.5	Licences	816	0.25
17,060	6.01	10.7	Total tractor fixed	17,060	5.23
148,650	52.34	92.9	Tractor total	174,449	52.64
			Trailer variable costs		
9,609	3.38	6.0	Repairs	11,520	3.48
1,433	0.50	0.9	Cleaning	1,433	0.43
1,520	0.54	1.0	Transport	1,520	0.46
9,917	3.44	6.3	Tires	1,433	0.43
19,479	6.86	12.2	Total trailer variable	25,896	7.81
			Trailer fixed costs		
3,843	1.35	2.4	Depreciation	3,843	1.16
28	0.01	0.0	Licences	28	0.01
3,871	1.36	2.4	Total trailer fixed	3,871	1.17
23,350	8.22	14.6	Trailer total	29,767	8.98
172,000	60.56	107.5	Total vehicle costs	204,216	61.62
7,068	2.49	4.4	Insurance costs	8,392	2.53
32,986	11.61	20.6	Admin. and interest	32,986	10.02
23,562	8.29	14.7	Pickup and delivery	27,975	8.44
235,616	82.95	147.2	Profit	27,975	8.44
			Total operating cost	279,748	84.41

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	81,570 lbs.
Average payload --	40,465 lbs.
Estimated annual quantity --	10,117 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s	G r a v e l r o a d s
236.9	Total Operating Cost 281.3

Configuration -- 3 axle semi-trailer unit

N.W.T.

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37000 kg.	37000 kg.
Average Payload	18355 kg.	18355 kg.
Estimated Annual Quantity	13766 tonnes	13766 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 22867	\$ 22867
Distance wage	\$ 57864	\$ 0
Hourly wage	\$ 0	\$ 78061
Wage burden	\$ 20586	\$ 25737

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
101,317	23.70	42.5	Tractor variable costs			
49,307	11.57	20.5	Driver	126,665	25.48	52.8
20,840	4.95	9.2	Fuel	49,307	9.92	20.5
1,791	0.42	0.7	Repairs	35,568	7.15	14.8
1,149	0.27	0.5	Cleaning	1,791	0.36	0.7
10,806	2.54	4.4	Transport	3,149	0.63	1.3
155,810	45.96	81.5	Tires	18,030	3.63	7.5
			Total tractor variable	234,510	47.17	97.6
16,244	3.81	6.8	Tractor fixed costs			
816	0.19	0.3	Depreciation	16,244	3.27	6.8
17,060	4.00	7.1	Licences	816	0.16	0.3
			Total tractor fixed	17,060	3.43	7.1
212,870	49.96	88.6	Tractor total	251,570	50.60	104.7
16,413	3.38	6.0	Trailer variable costs			
1,149	0.27	0.5	Repairs	17,295	3.48	7.2
1,149	0.27	0.5	Cleaning	2,150	0.43	0.9
1,149	0.27	0.5	Transport	1,520	0.31	0.6
1,149	0.27	0.5	Tires	17,119	3.44	7.1
16,413	3.38	6.0	Total trailer variable	38,084	7.66	15.8
3,843	0.90	1.6	Trailer fixed costs			
28	0.01	0.0	Depreciation	3,843	0.77	1.6
3,871	0.91	1.6	Licences	28	0.01	0.0
			Total trailer fixed	3,871	0.78	1.6
32,320	7.58	13.4	Trailer total	41,955	8.44	17.4
245,190	57.54	102.0	Total vehicle costs	293,525	59.04	122.1
10,877	2.36	4.2	Insurance costs	12,063	2.43	5.0
47,024	11.04	19.6	Admin. and interest	56,293	11.32	23.5
13,589	7.88	14.8	Pickup and delivery			
335,889	78.82	136.8	Profit	40,209	8.09	16.8
			Total operating cost	402,090	80.88	167.4

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	81,570 lbs.
Average payload --	40,465 lbs.
Estimated annual quantity --	15,174 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

225.0

Total Operating Cost

269.4

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	43200 kg.	43200 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	5670 tonnes	5670 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 10704	\$ 10704
Distance wage	\$ 22968	\$ 0
Hourly wage	\$ 0	\$ 30591
Wage burden	\$ 7576	\$ 9291

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
41,248	29.04	51.6	Tractor variable costs	50,586	30.53	63.2
16,561	11.66	20.7	Driver	16,561	9.99	20.7
11,454	8.06	14.3	Fuel	13,745	8.29	17.2
776	0.55	1.0	Repairs	776	0.47	1.0
4,126	2.90	5.2	Cleaning	4,126	2.49	5.2
3,920	2.76	4.9	Transport	6,663	4.02	8.3
78,085	54.97	97.7	Tires	92,457	55.79	115.6
			Total tractor variable			
16,212	11.41	20.3	Tractor fixed costs	16,212	9.78	20.3
1,240	0.87	1.6	Depreciation	1,240	0.75	1.6
17,452	12.28	21.9	Licences	17,452	10.53	21.9
			Total tractor fixed			
95,537	67.25	119.6	Tractor total	109,909	66.32	137.5
4,804	3.38	6.0	Trailer variable costs	5,765	3.48	7.2
537	0.38	0.7	Repairs	537	0.32	0.7
2,280	1.61	2.9	Cleaning	2,280	1.38	2.9
3,535	2.49	4.4	Transport	5,833	3.52	7.3
11,156	7.86	14.0	Tires	14,415	8.70	18.1
			Total trailer variable			
3,843	2.71	4.8	Trailer fixed costs	3,843	2.32	4.8
10	0.01		Depreciation	10	0.01	
3,853	2.72	4.8	Licences	3,853	2.33	4.8
			Total trailer fixed			
15,009	10.58	18.8	Trailer total	18,268	11.03	22.9
110,546	77.83	138.4	Total vehicle costs	128,177	77.35	160.4
4,543	3.20	5.7	Insurance costs	5,268	3.18	6.6
21,201	14.93	26.5	Admin. and interest	24,582	14.83	30.7
15,143	10.66	18.9	Pickup and delivery	17,559	10.60	21.9
151,433	106.62	189.5	Profit	175,586	105.96	219.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	95,239 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	6,250 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

305.0 Total Operating Cost 353.4

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	43200 kg.	43200 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	11340 tonnes	11340 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 21407	\$ 21407
Distance wage	\$ 45936	\$ 0
Hourly wage	\$ 0	\$ 61183
Wage burden	\$ 15152	\$ 10583

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
82,495	29.04	51.6	Tractor variable costs			
33,122	11.66	20.7	Driver	101,173	30.53	63.2
22,908	8.06	14.3	Fuel	33,122	9.99	20.7
1,553	0.55	1.0	Repairs	27,490	8.29	17.2
4,126	1.45	2.6	Cleaning	1,553	0.47	1.0
7,839	2.76	4.9	Transport	4,126	1.24	2.6
152,043	53.52	95.1	Tires	13,327	4.02	8.3
			Total tractor variable	180,791	54.54	113.0
16,212	5.71	10.1	Tractor fixed costs			
1,240	0.44	0.8	Depreciation	16,212	4.89	10.1
17,452	6.15	10.9	Licences	1,240	0.37	0.8
			Total tractor fixed	17,452	5.26	10.9
169,495	59.67	106.0	Tractor total	198,243	59.80	123.9
9,609	3.38	6.0	Trailer variable costs			
1,075	0.38	0.7	Repairs	11,530	3.48	7.2
2,280	0.80	1.4	Cleaning	1,075	0.32	0.7
7,071	2.49	4.4	Transport	2,280	0.69	1.4
20,035	7.05	12.5	Tires	11,667	3.52	7.3
			Total trailer variable	26,552	8.01	16.0
3,843	1.35	2.4	Trailer fixed costs			
10			Depreciation	3,843	1.16	2.4
3,853	1.35	2.4	Licences	10		
			Total trailer fixed	3,853	1.16	2.4
23,888	8.40	14.9	Trailer total	30,405	9.17	19.0
193,383	68.07	120.9	Total vehicle costs	228,648	68.97	142.9
7,947	2.80	5.0	Insurance costs	9,396	2.84	5.9
37,087	13.06	23.2	Admin. and interest	43,050	13.23	27.4
26,491	9.33	16.6	Pickup and delivery			
264,908	93.26	165.7	Profit	31,321	9.45	19.6
			Total operating cost	313,215	94.49	195.8

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	95,239 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	12,500 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

266.7 Total Operating Cost 315.1

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	43200 kg.	43200 kg.
Average Payload	22600 kg.	22600 kg.
Estimated Annual Quantity	17010 tonnes	17010 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 32111	\$ 32111
Distance wage	\$ 68904	\$ 0
Hourly wage	\$ 0	\$ 91774
Wage burden	\$ 22728	\$ 27874

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
123,743	29.04	51.6	Tractor variable costs			
49,683	11.66	20.7	Driver	151,759	30.53	63.2
34,363	8.06	14.3	Fuel	49,683	9.99	20.7
2,329	0.55	1.0	Repairs	41,235	8.29	17.2
4,126	0.97	1.7	Cleaning	2,329	0.47	1.0
11,759	2.76	4.9	Transport	4,126	0.83	1.7
226,003	53.04	94.2	Tires	19,990	4.02	8.3
			Total tractor variable	269,122	54.13	112.1
			Tractor fixed costs			
16,212	3.80	6.8	Depreciation	16,212	3.26	6.8
1,240	0.29	0.5	Licences	1,240	0.25	0.5
17,452	4.09	7.3	Total tractor fixed	17,452	3.51	7.3
243,455	57.13	101.5	Tractor total	286,574	57.64	119.4
			Trailer variable costs			
14,413	3.38	6.0	Repairs	17,295	3.40	7.2
1,012	0.38	0.7	Cleaning	1,012	0.32	0.7
2,280	0.54	1.0	Transport	2,280	0.40	1.0
10,606	2.49	4.4	Tires	17,500	3.52	7.3
28,911	6.79	12.1	Total trailer variable	38,607	7.78	16.2
			Trailer fixed costs			
3,843	0.90	1.6	Depreciation	3,843	0.77	1.6
10			Licences	10		
3,853	0.90	1.6	Total trailer fixed	3,853	0.77	1.6
32,764	7.69	13.7	Trailer total	42,540	8.55	17.8
276,219	64.82	115.2	Total vehicle costs	329,114	66.19	137.2
11,351	2.66	4.7	Insurance costs	13,525	2.72	5.6
52,973	12.43	22.1	Admin. and interest	63,118	12.78	26.3
37,838	8.88	15.8	Pickup and delivery	45,084	9.07	18.8
378,381	88.79	157.8	Profit			
			Total operating cost	430,841	90.68	187.9

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	95,239 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	18,750 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

253.9

Total Operating Cost

302.4

5 AXLE

SEMI-TRAILER

BULK



Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
39500 kg.	39500 kg.
24985 kg.	24985 kg.
6246 tonnes	6246 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 2576	\$ 2576
\$ 18456	\$ 0
\$ 0	\$ 23232
\$ 5132	\$ 6297

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
26,164	18.42	32.7	Tractor variable costs			
16,316	11.49	20.4	Driver	32,105	19.37	40.1
11,302	7.96	14.1	Fuel	16,316	9.85	20.4
208	0.15	0.3	Repairs	13,562	8.18	17.0
3,400	2.39	4.3	Cleaning	208	0.13	0.3
2,341	1.65	2.9	Transport	3,400	2.05	4.3
59,731	42.06	74.7	Tires	3,980	2.40	5.0
			Total tractor variable	69,571	41.98	87.1
			Tractor fixed costs			
17,201	12.11	21.5	Depreciation	17,201	10.38	21.5
1,508	1.06	1.9	Licences	1,508	0.91	1.9
18,709	13.17	23.4	Total tractor fixed	18,709	11.29	23.4
78,440	55.23	98.1	Tractor total	88,280	53.27	110.5
			Trailer variable costs			
5,297	3.73	6.6	Repairs	6,357	3.84	7.9
970	0.68	1.2	Cleaning	970	0.59	1.2
2,150	1.51	2.7	Transport	2,150	1.30	2.7
2,268	1.60	2.8	Tires	3,742	2.26	4.7
10,685	7.52	13.3	Total trailer variable	13,219	7.99	16.5
			Trailer fixed costs			
6,277	4.42	7.8	Depreciation	6,277	3.79	7.8
25	0.02		Licences	25	0.02	
6,302	4.44	7.8	Total trailer fixed	6,302	3.81	7.8
16,987	11.96	21.1	Trailer total	19,521	11.80	24.3
95,427	67.19	119.2	Total vehicle costs	107,801	65.07	134.8
3,922	2.76	4.9	Insurance costs	4,430	2.67	5.5
18,301	12.89	22.9	Admin. and interest	20,674	12.48	25.8
13,072	9.20	16.3	Pickup and delivery			
130,722	92.04	163.3	Profit	14,767	8.91	18.5
			Total operating cost	147,672	89.13	184.6

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 * Imperial Equivalent Summary *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 87,082 lbs.
 Average payload -- 55,082 lbs.
 Estimated annual quantity -- 6,885 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

262.8

Total Operating Cost 297.1

Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	24985 kg.	24985 kg.
Estimated Annual Quantity	12493 tonnes	12493 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5151	\$ 5151
Distance wage	\$ 36912	\$ 0
Hourly wage	\$ 0	\$ 46463
Wage burden	\$ 10263	\$ 12594

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
52,326	18.42	32.7	Tractor variable costs	64,208	19.37	40.1
32,632	11.49	20.4	Driver	32,632	9.85	20.4
22,603	7.96	14.1	Fuel	27,124	8.18	17.0
416	0.15	0.3	Repairs	416	0.13	0.3
3,400	1.20	2.1	Cleaning	3,400	1.03	2.1
4,683	1.65	2.9	Transport	7,960	2.40	5.0
116,060	40.87	72.5	Tires	135,740	40.96	84.9
			Total tractor variable			
17,201	6.06	10.8	Tractor fixed costs	17,201	5.19	10.8
1,508	0.53	0.9	Depreciation	1,508	0.46	0.9
18,709	6.59	11.7	Licences	18,709	5.65	11.7
			Total tractor fixed			
134,769	47.46	84.2	Tractor total	154,449	46.61	96.6
10,594	3.73	6.6	Trailer variable costs	12,713	3.84	7.9
1,941	0.68	1.2	Repairs	1,941	0.59	1.2
2,150	0.76	1.3	Cleaning	2,150	0.65	1.3
4,536	1.60	2.8	Transport	7,485	2.26	4.7
19,221	6.77	11.9	Tires	24,289	7.34	15.1
			Total trailer variable			
6,277	2.21	3.9	Trailer fixed costs	6,277	1.89	3.9
25	0.01		Depreciation	25	0.01	
6,302	2.22	3.9	Licences	6,302	1.90	3.9
			Total trailer fixed			
25,523	8.99	15.8	Trailer total	30,591	9.24	19.0
160,292	56.45	100.0	Total vehicle costs	185,040	55.85	115.6
6,587	2.32	4.1	Insurance costs	7,604	2.29	4.8
30,741	10.82	19.2	Admin. and interest	35,487	10.71	22.2
21,958	7.73	13.7	Pickup and delivery	25,348	7.65	15.8
219,578	77.32	137.0	Profit	253,479	76.50	158.4
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	55,082 lbs.
Estimated annual quantity --	13,771 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

220.5	Total Operating Cost	254.9
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Configuration -- 5 axle semi-trailer unit

British Columbia

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	24985 kg.	24985 kg.
Estimated Annual Quantity	18739 tonnes	18739 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.
B. Driver Costs		
Load - unload time cost	\$ 7727	\$ 7727
Distance wage	\$ 55368	\$ 0
Hourly wage	\$ 0	\$ 69695
Wage burden	\$ 15395	\$ 18891

C. Total Operating Costs

P a v e d R o a d s				G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
78,490	18.42	32.7	Tractor variable costs			
48,948	11.49	20.4	Driver	96,313	19.37	40.1
33,905	7.96	14.1	Fuel	48,948	9.85	20.4
623	0.15	0.3	Repairs	40,686	8.18	17.0
3,400	0.80	1.4	Cleaning	623	0.13	0.3
7,024	1.65	2.9	Transport	3,400	0.68	1.4
172,390	40.47	71.8	Tires	11,941	2.40	5.0
			Total tractor variable	201,911	40.61	84.2
			Tractor fixed costs			
17,201	4.04	7.2	Depreciation	17,201	3.46	7.2
1,508	0.35	0.6	Licences	1,508	0.30	0.6
18,709	4.39	7.8	Total tractor fixed	18,709	3.76	7.8
191,099	44.86	79.6	Tractor total	220,620	44.37	92.0
			Trailer variable costs			
15,892	3.73	6.6	Repairs	19,070	3.84	7.9
2,911	0.68	1.2	Cleaning	2,911	0.59	1.2
2,150	0.50	0.9	Transport	2,150	0.43	0.9
6,804	1.60	2.8	Tires	11,227	2.26	4.7
27,757	6.51	11.5	Total trailer variable	35,358	7.12	14.7
			Trailer fixed costs			
6,277	1.47	2.6	Depreciation	6,277	1.26	2.6
25	0.01		Licences	25	0.01	
6,302	1.48	2.6	Total trailer fixed	6,302	1.27	2.6
34,059	7.99	14.1	Trailer total	41,660	8.39	17.3
225,158	52.85	93.7	Total vehicle costs	262,280	52.76	109.3
9,253	2.17	3.9	Insurance costs	10,779	2.17	4.5
43,181	10.13	18.0	Admin. and interest	50,300	10.12	21.0
30,844	7.24	12.9	Pickup and delivery			
308,436	72.39	128.5	Profit	35,929	7.23	15.0
			Total operating cost	359,288	72.28	149.8

***** Imperial Equivalent Summary *****					
A.	Annual distance travelled --	149,136	mi.		
	Gross vehicle weight --	87,082	lbs.		
	Average payload --	55,082	lbs.		
	Estimated annual quantity --	20,656	tons		
B.	Total Operating Cost per mile (cents/mile)				
	P a v e d r o a d s		G r a v e l r o a d s		
	206.8	Total Operating Cost	241.1		

Configuration -- 5 axle semi-trailer unit

Alberta

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	39000 kg.	39000 kg.
	Average Payload	24480 kg.	24480 kg.
	Estimated Annual Quantity	6120 tonnes	6120 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2146	\$ 2146
	Distance wage	\$ 14696	\$ 0
	Hourly wage	\$ 0	\$ 19752
	Wage burden	\$ 4362	\$ 5671

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
21,204	14.93	26.5	Tractor variable costs	27,569	16.64	34.5
12,784	9.00	16.0	Driver	12,784	7.71	16.0
10,151	7.15	12.7	Fuel	12,182	7.35	15.2
717	0.50	0.9	Repairs	717	0.43	0.9
3,149	2.22	3.9	Cleaning	3,149	1.90	3.9
2,169	1.53	2.7	Transport	3,688	2.23	4.6
50,174	35.33	62.7	Tires	60,089	36.26	75.1
			Total tractor variable			
16,212	11.41	20.3	Tractor fixed costs	16,212	9.78	20.3
1,349	0.95	1.7	Depreciation	1,349	0.81	1.7
17,561	12.36	22.0	Licences	17,561	10.59	22.0
			Total tractor fixed			
67,735	47.69	84.7	Tractor total	77,650	46.85	97.1
			Trailer variable costs			
4,319	3.04	5.4	Repairs	5,183	3.13	6.5
1,511	1.06	1.9	Cleaning	1,511	0.91	1.9
2,063	1.45	2.6	Transport	2,063	1.24	2.6
2,169	1.53	2.7	Tires	3,579	2.16	4.5
10,062	7.08	12.6	Total trailer variable	12,336	7.44	15.5
			Trailer fixed costs			
5,922	4.17	7.4	Depreciation	5,922	3.57	7.4
20	0.01		Licences	20	0.01	
5,942	4.18	7.4	Total trailer fixed	5,942	3.58	7.4
16,004	11.26	20.0	Trailer total	18,278	11.02	22.9
83,739	58.95	104.7	Total vehicle costs	95,928	57.87	120.0
3,441	2.42	4.3	Insurance costs	3,942	2.38	4.9
16,059	11.31	20.1	Admin. and interest	18,397	11.10	23.0
11,471	8.00	14.3	Pickup and delivery	13,141	7.93	16.4
114,710	80.76	143.4	Profit	131,408	79.28	164.3
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	85,979 lbs.
	Average payload --	53,969 lbs.
	Estimated annual quantity --	6,746 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

230.8 Total Operating Cost 264.4

Configuration -- 5 axle semi-trailer unit

Alberta

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		39000 kg.	39000 kg.
Average Payload		24480 kg.	24480 kg.
Estimated Annual Quantity		12240 tonnes	12240 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.

B. Driver Costs			
Load - unload time cost		\$ 4291	\$ 4291
Distance wage		\$ 29392	\$ 0
Hourly wage		\$ 0	\$ 39504
Wage burden		\$ 8724	\$ 11343

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
42,407	14.93	26.5	Tractor variable costs			
25,568	9.00	16.0	Driver	55,138	16.64	34.5
20,303	7.15	12.7	Fuel	25,568	7.71	16.0
1,433	0.50	0.9	Repairs	24,363	7.35	15.2
3,149	1.11	2.0	Cleaning	1,433	0.43	0.9
4,338	1.53	2.7	Transport	3,149	0.95	2.0
97,198	34.22	60.8	Tires	7,375	2.23	4.6
			Total tractor variable	117,026	35.31	73.2
			Tractor fixed costs			
16,212	5.71	10.1	Depreciation	16,212	4.89	10.1
1,349	0.47	0.8	Licences	1,349	0.41	0.8
17,561	6.18	10.9	Total tractor fixed	17,561	5.30	10.9
114,759	40.40	71.7	Tractor total	134,587	40.61	84.1
			Trailer variable costs			
8,638	3.04	5.4	Repairs	10,365	3.13	6.5
3,022	1.06	1.9	Cleaning	3,022	0.91	1.9
2,063	0.73	1.3	Transport	2,063	0.62	1.3
4,338	1.53	2.7	Tires	7,158	2.16	4.5
18,061	6.36	11.3	Total trailer variable	22,608	6.82	14.2
			Trailer fixed costs			
5,922	2.08	3.7	Depreciation	5,922	1.79	3.7
20	0.01		Licences	20	0.01	
5,942	2.09	3.7	Total trailer fixed	5,942	1.80	3.7
24,003	8.45	15.0	Trailer total	28,550	8.62	17.9
138,762	48.85	86.7	Total vehicle costs	163,137	49.23	102.0
			Insurance costs	6,704	2.02	4.2
5,703	2.01	3.6	Admin. and interest	31,287	9.44	19.6
26,612	9.37	16.6	Pickup and delivery			
19,008	6.69	11.9	Profit	22,348	6.74	14.0
190,085	66.92	118.8	Total operating cost	223,476	67.43	139.8

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	85,979 lbs.
Average payload --	53,969 lbs.
Estimated annual quantity --	13,492 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s	G r a v e l r o a d s
191.2	Total Operating Cost 225.0

Configuration -- 5 axle semi-trailer unit

Alberta

Commodity -- Bulk

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	39000 kg.	39000 kg.
	Average Payload	24480 kg.	24480 kg.
	Estimated Annual Quantity	18360 tonnes	18360 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 6437	\$ 6437
	Distance wage	\$ 44088	\$ 0
	Hourly wage	\$ 0	\$ 59256
	Wage burden	\$ 13086	\$ 17014

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
63,611	14.93	26.5	Driver	82,707	16.64	34.5
38,352	9.00	16.0	Fuel	38,352	7.71	16.0
30,454	7.15	12.7	Repairs	36,545	7.35	15.2
2,150	0.50	0.9	Cleaning	2,150	0.43	0.9
3,149	0.74	1.3	Transport	3,149	0.63	1.3
6,507	1.53	2.7	Tires	11,063	2.23	4.6
144,223	33.85	60.1	Total tractor variable	173,966	34.99	72.5
			Tractor fixed costs			
16,212	3.80	6.8	Depreciation	16,212	3.26	6.8
1,349	0.32	0.6	Licences	1,349	0.27	0.6
17,561	4.12	7.4	Total tractor fixed	17,561	3.53	7.4
161,784	37.97	67.5	Tractor total	191,527	38.52	79.9
			Trailer variable costs			
12,957	3.04	5.4	Repairs	15,548	3.13	6.5
4,532	1.06	1.9	Cleaning	4,532	0.91	1.9
2,063	0.48	0.9	Transport	2,063	0.41	0.9
6,507	1.53	2.7	Tires	10,737	2.16	4.5
26,059	6.11	10.9	Total trailer variable	32,880	6.61	13.8
			Trailer fixed costs			
5,922	1.39	2.5	Depreciation	5,922	1.19	2.5
20			Licences	20		
5,942	1.39	2.5	Total trailer fixed	5,942	1.19	2.5
32,001	7.50	13.4	Trailer total	38,822	7.80	16.3
193,785	45.47	80.9	Total vehicle costs	230,349	46.32	96.2
			Insurance costs			
7,964	1.87	3.3	Admin. and interest	9,466	1.90	3.9
37,164	8.72	15.5	Pickup and delivery	44,177	8.89	18.4
26,546	6.23	11.1	Profit	31,555	6.35	13.1
265,459	62.29	110.8	Total operating cost	315,547	63.46	131.6

Imperial Equivalent Summary

A.	Annual distance travelled --	149,136 mi.
	Gross vehicle weight --	85,979 lbs.
	Average payload --	53,969 lbs.
	Estimated annual quantity --	20,238 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

178.3

Total Operating Cost 211.8

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
37500 kg.	37500 kg.
22985 kg.	22985 kg.
5746 tonnes	5746 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 1690	\$ 1690
\$ 12040	\$ 0
\$ 0	\$ 16570
\$ 3391	\$ 4510

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
17,121	12.05	21.4	Tractor variable costs			
14,516	10.22	18.1	Driver	22,770	13.74	28.5
8,034	5.66	10.0	Fuel	14,516	8.76	18.1
522	0.37	0.7	Repairs	9,641	5.82	12.1
2,823	1.99	3.5	Cleaning	522	0.32	0.7
2,075	1.46	2.6	Transport	2,823	1.70	3.5
45,091	31.75	56.3	Tires	3,528	2.13	4.4
			Total tractor variable	53,800	32.47	67.3
17,298	12.18	21.6	Tractor fixed costs			
2,163	1.52	2.7	Depreciation	17,298	10.44	21.6
19,461	13.70	24.3	Licences	2,163	1.31	2.7
			Total tractor fixed	19,461	11.75	24.3
64,552	45.45	80.6	Tractor total	73,261	44.22	91.6
4,560	3.21	5.7	Trailer variable costs			
821	0.58	1.0	Repairs	5,472	3.30	6.8
1,629	1.15	2.0	Cleaning	821	0.50	1.0
1,768	1.24	2.2	Transport	1,629	0.98	2.0
8,778	6.18	10.9	Tires	2,917	1.76	3.6
			Total trailer variable	10,839	6.54	13.4
6,337	4.46	7.9	Trailer fixed costs			
32	0.02		Depreciation	6,337	3.82	7.9
6,369	4.48	7.9	Licences	32	0.02	
			Total trailer fixed	6,369	3.84	7.9
15,147	10.66	18.8	Trailer total	17,208	10.38	21.3
79,699	56.11	99.4	Total vehicle costs	90,469	54.60	112.9
3,275	2.31	4.1	Insurance costs	3,718	2.24	4.6
15,285	10.76	19.1	Admin. and interest	17,350	10.47	21.7
10,918	7.69	13.6	Pickup and delivery			
109,177	76.87	136.2	Profit	12,393	7.48	15.5
			Total operating cost	123,930	74.79	154.7

.....
 Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 82,673 lbs.
 Average payload -- 50,673 lbs.
 Estimated annual quantity -- 6,334 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

219.2

Total Operating Cost 249.0

.....

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Bulk

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	37500 kg.	37500 kg.
	Average Payload	22985 kg.	22985 kg.
	Estimated Annual Quantity	11493 tonnes	11493 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2841 hrs.	3314 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 3380	\$ 3380
	Distance wage	\$ 24080	\$ 0
	Hourly wage	\$ 0	\$ 33141
	Wage burden	\$ 6783	\$ 9021

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
34,243	12.05	21.4	Tractor variable costs	45,542	13.74	28.5
29,031	10.22	18.1	Driver	29,031	8.76	18.1
16,069	5.66	10.0	Fuel	19,282	5.82	12.1
1,045	0.37	0.7	Repairs	1,045	0.32	0.7
2,823	0.99	1.0	Cleaning	2,823	0.85	1.0
4,150	1.46	2.6	Transport	7,055	2.13	4.4
87,361	30.75	54.6	Tires	104,778	31.62	65.6
			Total tractor variable			
17,290	6.09	10.0	Tractor fixed costs	17,290	5.22	10.0
2,163	0.76	1.4	Depreciation	2,163	0.65	1.4
19,461	6.85	12.2	Licences	19,461	5.87	12.2
			Total tractor fixed			
106,822	37.60	66.8	Tractor total	124,239	37.49	77.8
			Trailer variable costs			
9,120	3.21	5.7	Repairs	10,944	3.30	6.8
1,642	0.58	1.0	Cleaning	1,642	0.50	1.0
1,629	0.57	1.0	Transport	1,629	0.49	1.0
3,535	1.24	2.2	Tires	5,833	1.76	3.6
15,926	5.60	9.9	Total trailer variable	20,948	6.05	12.4
			Trailer fixed costs			
6,337	2.23	4.0	Depreciation	6,337	1.91	4.0
32	0.01		Licences	32	0.01	
6,369	2.24	4.0	Total trailer fixed	6,369	1.92	4.0
			Trailer total	26,417	7.97	16.4
22,295	7.84	13.9	Total vehicle costs	150,656	45.46	94.2
129,117	45.44	80.7	Insurance costs	6,191	1.87	3.9
5,306	1.87	3.3	Admin. and interest	28,893	8.72	18.1
24,762	8.72	15.5	Pickup and delivery	20,638	6.23	12.9
17,687	6.23	11.1	Profit	206,378	62.28	129.1
176,872	62.26	110.6	Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	99,424 mi.
	Gross vehicle weight --	82,673 lbs.
	Average payload --	50,673 lbs.
	Estimated annual quantity --	12,669 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

178.0

Total Operating Cost 207.8

Configuration -- 5 axle semi-trailer unit

Saskatchewan

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	37500 kg.	37500 kg.
Average Payload	22985 kg.	22985 kg.
Estimated Annual Quantity	17239 tonnes	17239 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5070	\$ 5070
Distance wage	\$ 36120	\$ 0
Hourly wage	\$ 0	\$ 49711
Wage burden	\$ 10174	\$ 13531

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
51,364	12.05	21.4	Tractor variable costs			
43,547	10.22	18.1	Driver	68,312	13.74	28.5
24,103	5.66	10.0	Fuel	43,547	8.76	18.1
1,567	0.37	0.7	Repairs	28,923	5.82	12.1
2,023	0.66	1.2	Cleaning	1,567	0.32	0.7
6,225	1.46	2.6	Transport	2,823	0.57	1.2
129,629	30.42	54.0	Tires	10,583	2.13	4.4
			Total tractor variable	155,755	31.34	65.0
			Tractor fixed costs			
17,298	4.06	7.2	Depreciation	17,298	3.48	7.2
2,163	0.51	0.9	Licences	2,163	0.44	0.9
19,461	4.57	8.1	Total tractor fixed	19,461	3.92	8.1
149,090	34.99	62.1	Tractor total	175,216	35.26	73.1
			Trailer variable costs			
13,680	3.21	5.7	Repairs	16,416	3.30	6.8
2,463	0.58	1.0	Cleaning	2,463	0.50	1.0
1,629	0.38	0.7	Transport	1,629	0.33	0.7
5,303	1.24	2.2	Tires	8,750	1.76	3.6
23,075	5.41	9.6	Total trailer variable	29,258	5.89	12.1
			Trailer fixed costs			
6,337	1.49	2.6	Depreciation	6,337	1.27	2.6
32	0.01		Licences	32	0.01	
6,369	1.50	2.6	Total trailer fixed	6,369	1.28	2.6
29,444	6.91	12.2	Trailer total	35,627	7.17	14.7
178,534	41.90	74.3	Total vehicle costs	210,843	42.43	87.8
7,337	1.72	3.1	Insurance costs	8,665	1.74	3.6
34,239	8.04	14.3	Admin. and interest	40,436	8.13	16.8
24,457	5.74	10.2	Pickup and delivery			
244,567	57.40	101.9	Profit	28,883	5.81	12.0
			Total operating cost	288,827	58.11	120.2

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	82,673 lbs.
Average payload --	50,673 lbs.
Estimated annual quantity --	19,003 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

164.0

Total Operating Cost 193.4

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	39500 kg.	39500 kg.
	Average Payload	22680 kg.	22680 kg.
	Estimated Annual Quantity	5670 tonnes	5670 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 1668	\$ 1668
	Distance wage	\$ 12880	\$ 0
	Hourly wage	\$ 0	\$ 16570
	Wage burden	\$ 3782	\$ 4742

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
18,330	12.91	22.9	Tractor variable costs			
15,472	10.89	19.3	Driver	22,980	13.87	28.7
8,251	5.81	10.3	Fuel	15,472	9.34	19.3
1,003	0.71	1.3	Repairs	9,902	5.98	12.4
2,714	1.91	3.4	Cleaning	1,003	0.61	1.3
2,192	1.54	2.7	Transport	2,714	1.64	3.4
47,962	33.77	59.9	Tires	3,726	2.25	4.7
			Total tractor variable	55,797	33.69	69.8
			Tractor fixed costs			
17,266	12.16	21.6	Depreciation	17,266	10.42	21.6
2,202	1.55	2.8	Licences	2,202	1.33	2.8
19,468	13.71	24.4	Total tractor fixed	19,468	11.75	24.4
67,430	47.48	84.3	Tractor total	75,265	45.44	94.2
			Trailer variable costs			
4,256	3.00	5.3	Repairs	5,107	3.08	6.4
1,475	1.04	1.8	Cleaning	1,475	0.89	1.8
1,086	0.76	1.4	Transport	1,086	0.66	1.4
1,768	1.24	2.2	Tires	2,917	1.76	3.6
8,585	6.04	10.7	Total trailer variable	10,585	6.39	13.2
			Trailer fixed costs			
6,337	4.46	7.9	Depreciation	6,337	3.82	7.9
10	0.01		Licences	10	0.01	
6,347	4.47	7.9	Total trailer fixed	6,347	3.83	7.9
14,932	10.51	18.6	Trailer total	16,932	10.22	21.1
82,362	57.99	102.9	Total vehicle costs	92,197	55.66	115.3
3,385	2.38	4.2	Insurance costs	3,789	2.29	4.7
15,795	11.12	19.7	Admin. and interest	17,681	10.67	22.1
			Pickup and delivery			
11,282	7.94	14.1	Profit	12,630	7.62	15.8
112,824	79.43	140.9	Total operating cost	126,297	76.24	157.9

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	87,082 lbs.
	Average payload --	50,000 lbs.
	Estimated annual quantity --	6,250 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

226.8 Total Operating Cost 254.1

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	11340 tonnes	11340 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3335	\$ 3335
Distance wage	\$ 25760	\$ 0
Hourly wage	\$ 0	\$ 33141
Wage burden	\$ 7565	\$ 9484

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
36,660	12.91	22.9	Tractor variable costs			
30,943	10.89	19.3	Driver	45,960	13.87	28.7
16,503	5.81	10.3	Fuel	30,943	9.34	19.3
2,006	0.71	1.3	Repairs	19,803	5.98	12.4
2,714	0.96	1.7	Cleaning	2,006	0.61	1.3
4,384	1.54	2.7	Transport	2,714	0.82	1.7
93,210	32.82	58.2	Tires	7,452	2.25	4.7
			Total tractor variable	108,878	32.87	68.1
17,266	6.08	10.8	Tractor fixed costs			
2,202	0.78	1.4	Depreciation	17,266	5.21	10.8
19,468	6.86	12.2	Licences	2,202	0.66	1.4
			Total tractor fixed	19,468	5.87	12.2
112,678	39.68	70.4	Tractor total	128,346	38.74	80.3
8,512	3.00	5.3	Trailer variable costs			
2,950	1.04	1.8	Repairs	10,214	3.08	6.4
1,086	0.38	0.7	Cleaning	2,950	0.89	1.8
3,535	1.24	2.2	Transport	1,086	0.33	0.7
16,083	5.66	10.0	Tires	5,833	1.76	3.6
			Total trailer variable	20,083	6.06	12.5
6,337	2.23	4.0	Trailer fixed costs			
10			Depreciation	6,337	1.91	4.0
6,347	2.23	4.0	Licences	10		
			Total trailer fixed	6,347	1.91	4.0
22,430	7.89	14.0	Trailer total	26,430	7.97	16.5
135,108	47.57	84.4	Total vehicle costs	154,776	46.71	96.8
5,552	1.95	3.5	Insurance costs	6,361	1.92	4.0
25,911	9.12	16.2	Admin. and interest	29,683	8.96	18.6
18,508	6.52	11.6	Pickup and delivery			
185,079	65.16	115.7	Profit	21,202	6.48	13.3
			Total operating cost	212,022	63.99	132.7

..... Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	12,500 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

186.2

Total Operating Cost 213.6

Configuration -- 5 axle semi-trailer unit

Manitoba

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	39500 kg.	39500 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	17010 tonnes	17010 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5003	\$ 5003
Distance wage	\$ 38640	\$ 0
Hourly wage	\$ 0	\$ 49711
Wage burden	\$ 11347	\$ 14226

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
54,990	12.91	22.9	Tractor variable costs			
46,415	10.89	19.3	Driver	68,940	13.87	28.7
24,754	5.81	10.3	Fuel	46,415	9.34	19.3
3,010	0.71	1.3	Repairs	29,705	5.98	12.4
2,714	0.64	1.1	Cleaning	3,010	0.61	1.3
6,576	1.54	2.7	Transport	2,714	0.55	1.1
138,459	32.50	57.6	Tires	11,179	2.25	4.7
			Total tractor variable	161,963	32.60	67.5
17,266	4.05	7.2	Tractor fixed costs			
2,202	0.52	0.9	Depreciation	17,266	3.47	7.2
19,468	4.57	8.1	Licences	2,202	0.44	0.9
			Total tractor fixed	19,468	3.91	8.1
157,927	37.07	65.7	Tractor total	181,431	36.51	75.6
12,760	3.00	5.3	Trailer variable costs			
4,425	1.04	1.8	Repairs	15,322	3.08	6.4
1,086	0.25	0.5	Cleaning	4,425	0.89	1.8
5,303	1.24	2.2	Transport	1,086	0.22	0.5
23,582	5.53	9.8	Tires	8,750	1.76	3.6
			Total trailer variable	29,583	5.95	12.3
6,337	1.49	2.6	Trailer fixed costs			
10			Depreciation	6,337	1.27	2.6
6,347	1.49	2.6	Licences	10		
			Total trailer fixed	6,347	1.27	2.6
29,929	7.02	12.4	Trailer total	35,930	7.22	14.9
187,856	44.09	78.1	Total vehicle costs	217,361	43.73	90.5
7,720	1.81	3.2	Insurance costs	8,933	1.80	3.7
36,027	8.46	15.0	Admin. and interest	41,685	8.39	17.4
25,734	6.04	10.7	Pickup and delivery			
257,337	60.40	107.0	Profit	29,775	5.99	12.4
			Total operating cost	297,754	59.91	124.0

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	87,082 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	18,750 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

172.2 Total Operating Cost 199.6

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	47200 kg.	47200 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	5670 tonnes	5670 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2400	\$ 2400
Distance wage	\$ 15944	\$ 0
Hourly wage	\$ 0	\$ 23845
Wage burden	\$ 4769	\$ 6824

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
23,113	16.27	28.9	Tractor variable costs			
16,424	11.56	20.5	Driver	33,069	19.96	41.3
9,663	6.80	12.1	Fuel	16,424	9.91	20.5
299	0.21	0.4	Repairs	11,595	7.00	14.5
1,954	1.38	2.4	Cleaning	299	0.18	0.4
2,333	1.64	2.9	Transport	1,954	1.18	2.4
53,786	37.86	67.2	Tires	3,967	2.39	5.0
			Total tractor variable	67,308	40.62	84.1
17,402	12.25	21.8	Tractor fixed costs			
2,006	1.41	2.5	Depreciation	17,402	10.50	21.8
19,408	13.66	24.3	Licences	2,006	1.21	2.5
			Total tractor fixed	19,408	11.71	24.3
73,194	51.52	91.5	Tractor total	86,716	52.33	108.4
6,189	4.36	7.7	Trailer variable costs			
1,648	1.16	2.1	Repairs	7,426	4.48	9.3
1,846	1.30	2.3	Cleaning	1,648	0.99	2.1
2,333	1.64	2.9	Transport	1,846	1.11	2.3
12,016	8.46	15.0	Tires	3,850	2.32	4.8
			Total trailer variable	14,770	8.90	18.5
6,396	4.50	8.0	Trailer fixed costs			
6,396	4.50	8.0	Depreciation	6,396	3.86	8.0
			Licences			
18,412	12.96	23.0	Total trailer fixed	6,396	3.86	8.0
91,606	64.48	114.5	Trailer total	21,166	12.76	26.5
3,765	2.65	4.7	Total vehicle costs	107,882	65.09	134.9
17,568	12.37	22.0	Insurance costs	4,434	2.68	5.5
12,549	8.84	15.7	Admin. and interest	20,690	12.49	25.9
125,488	88.34	156.9	Pickup and delivery			
			Profit	14,778	8.92	18.5
			Total operating cost	147,784	89.18	184.8

 * Imperial Equivalent Summary *

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	104,057 lbs.
	Average payload --	50,000 lbs.
	Estimated annual quantity --	6,250 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

252.5

Total Operating Cost 297.4

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	47200 kg.	47200 kg.
Average Payload	22680 kg.	22680 kg.
Estimated Annual Quantity	11340 tonnes	11340 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4799	\$ 4799
Distance wage	\$ 31888	\$ 0
Hourly wage	\$ 0	\$ 47689
Wage burden	\$ 9539	\$ 13647

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
46,226	16.27	28.9	Tractor variable costs			
32,849	11.56	20.5	Driver	66,135	19.96	41.3
19,326	6.80	12.1	Fuel	32,849	9.91	20.5
597	0.21	0.4	Repairs	23,191	7.00	14.5
1,954	0.69	1.2	Cleaning	597	0.18	0.4
4,667	1.64	2.9	Transport	1,954	0.59	1.2
105,619	37.17	66.0	Tires	7,933	2.39	5.0
			Total tractor variable	132,659	40.03	82.9
			Tractor fixed costs			
17,402	6.13	10.9	Depreciation	17,402	5.25	10.9
2,006	0.71	1.3	Licences	2,006	0.61	1.3
19,408	6.84	12.2	Total tractor fixed	19,408	5.86	12.2
125,027	44.01	78.2	Tractor total	152,067	45.89	95.1
			Trailer variable costs			
12,377	4.36	7.7	Repairs	14,853	4.48	9.3
3,296	1.16	2.1	Cleaning	3,296	0.99	2.1
1,846	0.65	1.2	Transport	1,846	0.56	1.2
4,667	1.64	2.9	Tires	7,700	2.32	4.8
22,186	7.81	13.9	Total trailer variable	27,695	8.35	17.4
			Trailer fixed costs			
6,396	2.25	4.0	Depreciation	6,396	1.93	4.0
6,396	2.25	4.0	Licences	6,396	1.93	4.0
28,582	10.06	17.9	Total trailer fixed	6,396	1.93	4.0
153,609	54.07	96.1	Trailer total	34,091	10.28	21.4
			Total vehicle costs	186,158	56.17	116.5
6,313	2.22	3.9	Insurance costs	7,650	2.31	4.8
29,459	10.37	18.4	Admin. and interest	35,701	10.77	22.3
21,042	7.41	13.2	Pickup and delivery	25,501	7.69	15.9
210,423	74.07	131.6	Profit	255,010	76.94	159.5
			Total operating cost			

* Imperial Equivalent Summary *

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 104,057 lbs.
 Average payload -- 50,000 lbs.
 Estimated annual quantity -- 12,500 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

211.8 Total Operating Cost 256.7

Configuration -- 5 axle semi-trailer unit

Ontario

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		47200 kg.	47200 kg.
Average Payload		22680 kg.	22680 kg.
Estimated Annual Quantity		17010 tonnes	17010 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		4261 hrs.	4971 hrs.
B. Driver Costs			
Load - unload time cost		\$ 7199	\$ 7199
Distance wage		\$ 47832	\$ 0
Hourly wage		\$ 0	\$ 71534
Wage burden		\$ 14308	\$ 20471

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
69,339	16.27	28.9	Tractor variable costs			
49,273	11.56	20.5	Driver	99,204	19.96	41.3
28,988	6.80	12.1	Fuel	49,273	9.91	20.5
896	0.21	0.4	Repairs	34,786	7.00	14.5
1,954	0.46	0.8	Cleaning	896	0.18	0.4
7,000	1.64	2.9	Transport	1,954	0.39	0.8
157,450	36.94	65.6	Tires	11,900	2.39	5.0
			Total tractor variable	198,013	39.83	82.5
17,402	4.08	7.3	Tractor fixed costs			
2,006	0.47	0.8	Depreciation	17,402	3.50	7.3
19,408	4.55	8.1	Licences	2,006	0.40	0.8
			Total tractor fixed	19,408	3.90	8.1
176,858	41.49	73.7	Tractor total	217,421	43.73	90.6
18,566	4.36	7.7	Trailer variable costs			
4,944	1.16	2.1	Repairs	22,279	4.48	9.3
1,846	0.43	0.8	Cleaning	4,944	0.99	2.1
7,000	1.64	2.9	Transport	1,846	0.37	0.8
32,356	7.59	13.5	Tires	11,550	2.32	4.8
			Total trailer variable	40,619	8.16	17.0
6,396	1.50	2.7	Trailer fixed costs			
			Depreciation	6,396	1.29	2.7
6,396	1.50	2.7	Licences			
			Total trailer fixed	6,396	1.29	2.7
38,752	9.09	16.2	Trailer total	47,015	9.45	19.7
215,610	50.58	89.9	Total vehicle costs	264,436	53.18	110.3
8,861	2.08	3.7	Insurance costs	10,867	2.19	4.5
41,350	9.70	17.2	Admin. and interest	50,714	10.20	21.1
29,536	6.93	12.3	Pickup and delivery			
295,357	69.29	123.1	Profit	36,224	7.29	15.1
			Total operating cost	362,241	72.86	151.0

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	104,057 lbs.
Average payload --	50,000 lbs.
Estimated annual quantity --	18,750 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

198.1

Total Operating Cost 243.0

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	25400 kg.	25400 kg.
Estimated Annual Quantity	6350 tonnes	6350 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.
B. Driver Costs		
Load - unload time cost	\$ 2383	\$ 2383
Distance wage	\$ 15224	\$ 0
Hourly wage	\$ 0	\$ 21144
Wage burden	\$ 5106	\$ 6823

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
22,713	15.99	28.4	Tractor variable costs		
19,227	13.54	24.0	30,350	18.32	37.9
9,771	6.88	12.2	19,227	11.60	24.0
299	0.21	0.4	11,726	7.08	14.7
2,389	1.68	3.0	299	0.18	0.4
2,263	1.59	2.8	2,389	1.44	3.0
56,662	39.89	70.8	3,846	2.32	4.8
			67,837	40.94	84.8
			Tractor fixed costs		
17,490	12.31	21.9	17,490	10.55	21.9
2,070	1.46	2.6	2,070	1.25	2.6
19,560	13.77	24.5	19,560	11.80	24.5
76,222	53.66	95.3	87,397	52.74	109.3
			Trailer variable costs		
6,189	4.36	7.7	7,426	4.48	9.3
1,648	1.16	2.1	1,648	0.99	2.1
2,497	1.76	3.1	2,497	1.51	3.1
2,333	1.64	2.9	3,850	2.32	4.8
12,667	8.92	15.8	15,421	9.30	19.3
			Trailer fixed costs		
6,455	4.54	8.1	6,455	3.90	8.1
57	0.04	0.1	57	0.03	0.1
6,512	4.58	8.2	6,512	3.93	8.2
19,179	13.50	24.0	21,933	13.23	27.5
95,401	67.16	119.3	109,330	65.97	136.8
3,921	2.76	4.9	4,493	2.71	5.6
18,296	12.88	22.9	20,967	12.65	26.2
13,069	9.20	16.3	14,977	9.04	18.7
130,687	92.00	163.4	149,767	90.37	187.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	106,923 lbs.
Average payload --	55,997 lbs.
Estimated annual quantity --	7,000 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

263.0 Total Operating Cost 301.4

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	25400 kg.	25400 kg.
Estimated Annual Quantity	12700 tonnes	12700 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4766	\$ 4766
Distance wage	\$ 30448	\$ 0
Hourly wage	\$ 0	\$ 42288
Wage burden	\$ 10212	\$ 13646

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
45,426	15.99	28.4	Tractor variable costs			
38,453	13.54	24.0	Driver	60,700	18.32	37.9
19,543	6.88	12.2	Fuel	38,453	11.60	24.0
597	0.21	0.4	Repairs	23,451	7.08	14.7
2,389	0.84	1.5	Cleaning	597	0.18	0.4
4,525	1.59	2.8	Transport	2,389	0.72	1.5
110,933	39.05	69.3	Tires	7,693	2.32	4.8
			Total tractor variable	133,283	40.22	83.3
17,490	6.16	10.9	Tractor fixed costs			
2,070	0.73	1.3	Depreciation	17,490	5.28	10.9
19,560	6.89	12.2	Licences	2,070	0.62	1.3
			Total tractor fixed	19,560	5.90	12.2
130,493	45.94	81.5	Tractor total	152,843	46.12	95.5
12,377	4.36	7.7	Trailer variable costs			
3,296	1.16	2.1	Repairs	14,853	4.48	9.3
2,497	0.88	1.6	Cleaning	3,296	0.99	2.1
4,667	1.64	2.9	Transport	2,497	0.75	1.6
22,837	8.04	14.3	Tires	7,700	2.32	4.8
			Total trailer variable	28,346	8.54	17.8
6,455	2.27	4.0	Trailer fixed costs			
57	0.02		Depreciation	6,455	1.95	4.0
6,512	2.29	4.0	Licences	57	0.02	
			Total trailer fixed	6,512	1.97	4.0
29,349	10.33	18.3	Trailer total	34,858	10.51	21.8
159,842	56.27	99.8	Total vehicle costs	187,701	56.63	117.3
6,569	2.31	4.1	Insurance costs	7,714	2.33	4.8
30,655	10.79	19.2	Admin. and interest	35,997	10.86	22.5
21,896	7.71	13.7	Pickup and delivery			
218,962	77.08	136.8	Profit	25,712	7.76	16.1
			Total operating cost	257,124	77.58	160.7

* Imperial Equivalent Summary *

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	106,923 lbs.
Average payload --	55,997 lbs.
Estimated annual quantity --	13,999 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

220.2 Total Operating Cost 258.6

Configuration -- 5 axle semi-trailer unit

Quebec

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	48500 kg.	48500 kg.
Average Payload	25400 kg.	25400 kg.
Estimated Annual Quantity	19050 tonnes	19050 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7149	\$ 7149
Distance wage	\$ 45672	\$ 0
Hourly wage	\$ 0	\$ 63431
Wage burden	\$ 15318	\$ 20468

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
68,139	15.99	28.4	Tractor variable costs			
57,680	13.54	24.0	Driver	91,048	18.32	37.9
29,314	6.98	12.2	Fuel	57,680	11.60	24.0
896	0.21	0.4	Repairs	35,177	7.08	14.7
2,389	0.56	1.0	Cleaning	896	0.18	0.4
6,788	1.59	2.8	Transport	2,389	0.48	1.0
165,206	38.77	68.8	Tires	11,539	2.32	4.8
			Total tractor variable	198,729	39.98	82.8
17,490	4.10	7.3	Tractor fixed costs			
2,070	0.49	0.9	Depreciation	17,490	3.52	7.3
19,560	4.59	8.2	Licences	2,070	0.42	0.9
			Total tractor fixed	19,560	3.94	8.2
184,766	43.36	77.0	Tractor total	218,289	43.92	91.0
18,566	4.36	7.7	Trailer variable costs			
4,944	1.16	2.1	Repairs	22,279	4.48	9.3
2,497	0.59	1.0	Cleaning	4,944	0.99	2.1
7,000	1.64	2.9	Transport	2,497	0.50	1.0
33,007	7.75	13.7	Tires	11,550	2.32	4.8
			Total trailer variable	41,270	8.29	17.2
6,455	1.51	2.7	Trailer fixed costs			
57	0.01		Depreciation	6,455	1.30	2.7
6,512	1.52	2.7	Licences	57	0.01	
			Total trailer fixed	6,512	1.31	2.7
39,519	9.27	16.4	Trailer total	47,782	9.60	19.9
224,285	52.63	93.4	Total vehicle costs	266,071	53.52	110.9
9,217	2.16	3.8	Insurance costs	10,934	2.20	4.6
43,013	10.09	17.9	Admin. and interest	51,027	10.26	21.3
30,724	7.21	12.8	Pickup and delivery	36,448	7.33	15.2
307,239	72.09	127.9	Profit			
			Total operating cost	364,480	73.31	152.0

* Imperial Equivalent Summary *

A.	Annual distance travelled --	149,136 mi.
	Gross vehicle weight --	106,923 lbs.
	Average payload --	55,997 lbs.
	Estimated annual quantity --	20,999 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

205.8

Total Operating Cost

244.6

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	5963 tonnes	5963 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1883	\$ 1883
Distance wage	\$ 11544	\$ 0
Hourly wage	\$ 0	\$ 17797
Wage burden	\$ 2860	\$ 4192

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
16,287	11.47	20.4	Tractor variable costs			
14,999	10.56	18.7	Driver	23,872	14.41	29.8
9,315	6.56	11.6	Fuel	14,999	9.05	18.7
179	0.13	0.2	Repairs	11,178	6.75	14.0
2,063	1.45	2.6	Cleaning	179	0.11	0.2
1,992	1.40	2.5	Transport	2,063	1.24	2.6
44,835	31.57	56.0	Tires	3,387	2.04	4.2
			Total tractor variable	55,678	33.60	69.5
			Tractor fixed costs			
17,904	12.61	22.4	Depreciation	17,904	10.80	22.4
1,342	0.94	1.7	Licences	1,342	0.81	1.7
19,246	13.55	24.1	Total tractor fixed	19,246	11.61	24.1
64,081	45.12	80.1	Tractor total	74,924	45.21	93.6
			Trailer variable costs			
5,019	3.53	6.3	Repairs	6,023	3.63	7.5
418	0.29	0.5	Cleaning	418	0.25	0.5
977	0.69	1.2	Transport	977	0.59	1.2
1,697	1.19	2.1	Tires	2,800	1.69	3.5
8,111	5.70	10.1	Total trailer variable	10,218	6.16	12.7
			Trailer fixed costs			
6,573	4.63	8.2	Depreciation	6,573	3.97	8.2
10	0.01		Licences	10	0.01	
6,583	4.64	8.2	Total trailer fixed	6,583	3.98	8.2
14,694	10.34	18.3	Trailer total	16,801	10.14	20.9
78,775	55.46	98.4	Total vehicle costs	91,725	55.35	114.5
3,237	2.28	4.0	Insurance costs	3,770	2.28	4.7
15,108	10.64	18.9	Admin. and interest	17,591	10.62	22.0
			Pickup and delivery			
10,791	7.60	13.5	Profit	12,565	7.58	15.7
107,911	75.98	134.8	Total operating cost	125,651	75.83	156.9

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	6,573 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

216.9

Total Operating Cost 252.5

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	11925 tonnes	11925 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3767	\$ 3767
Distance wage	\$ 23088	\$ 0
Hourly wage	\$ 0	\$ 35593
Wage burden	\$ 5720	\$ 8384

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
32,575	11.47	20.4	Tractor variable costs	47,744	14.41	29.8
29,998	10.56	18.7	Driver	29,998	9.05	18.7
18,631	6.56	11.6	Fuel	22,357	6.75	14.0
358	0.13	0.2	Repairs	358	0.11	0.2
2,063	0.73	1.3	Cleaning	2,063	0.62	1.3
3,984	1.40	2.5	Transport	6,773	2.04	4.2
87,609	30.85	54.7	Tires	109,293	32.98	68.2
			Total tractor variable			
			Tractor fixed costs			
17,904	6.30	11.2	Depreciation	17,904	5.40	11.2
1,342	0.47	0.8	Licences	1,342	0.40	0.8
19,246	6.77	12.0	Total tractor fixed	19,246	5.80	12.0
106,855	37.62	66.7	Tractor total	128,539	38.78	80.2
			Trailer variable costs			
10,038	3.53	6.3	Repairs	12,046	3.63	7.5
836	0.29	0.5	Cleaning	836	0.25	0.5
977	0.34	0.6	Transport	977	0.29	0.6
3,394	1.19	2.1	Tires	5,600	1.69	3.5
15,245	5.35	9.5	Total trailer variable	19,459	5.86	12.1
			Trailer fixed costs			
6,573	2.31	4.1	Depreciation	6,573	1.98	4.1
10			Licences	10		
6,583	2.31	4.1	Total trailer fixed	6,583	1.98	4.1
21,828	7.66	13.6	Trailer total	26,042	7.84	16.2
128,683	45.28	80.3	Total vehicle costs	154,581	46.62	96.4
5,288	1.86	3.3	Insurance costs	6,353	1.92	4.0
24,679	8.69	15.4	Admin. and interest	29,646	8.95	18.5
17,628	6.21	11.0	Pickup and delivery	21,176	6.39	13.2
176,278	62.04	110.0	Profit	211,756	63.88	132.1
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	13,145 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

177.0 Total Operating Cost 212.6

Configuration -- 5 axle semi-trailer unit

New Brunswick

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
40500 kg.	40500 kg.
23850 kg.	23850 kg.
17888 tonnes	17888 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 5650	\$ 5650
\$ 34632	\$ 0
\$ 0	\$ 53390
\$ 8580	\$ 12576

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
48,862	11.47	20.4	Tractor variable costs			
44,997	10.56	18.7	Driver	71,616	14.41	29.8
27,946	6.56	11.6	Fuel	44,997	9.05	18.7
537	0.13	0.2	Repairs	33,535	6.75	14.0
2,063	0.48	0.9	Cleaning	537	0.11	0.2
5,976	1.40	2.5	Transport	2,063	0.41	0.9
130,381	30.60	54.3	Tires	10,160	2.04	4.2
			Total tractor variable	162,908	32.77	67.8
			Tractor fixed costs			
17,904	4.20	7.5	Depreciation	17,904	3.60	7.5
1,342	0.31	0.6	Licences	1,342	0.27	0.6
19,246	4.51	8.1	Total tractor fixed	19,246	3.87	8.1
149,627	35.11	62.4	Tractor total	182,154	36.64	75.9
			Trailer variable costs			
15,058	3.53	6.3	Repairs	18,069	3.63	7.5
1,254	0.29	0.5	Cleaning	1,254	0.25	0.5
977	0.23	0.4	Transport	977	0.20	0.4
5,091	1.19	2.1	Tires	8,400	1.69	3.5
22,380	5.24	9.3	Total trailer variable	28,700	5.77	11.9
			Trailer fixed costs			
6,573	1.54	2.7	Depreciation	6,573	1.32	2.7
10			Licences	10		
6,583	1.54	2.7	Total trailer fixed	6,583	1.32	2.7
28,963	6.78	12.0	Trailer total	35,283	7.09	14.6
178,590	41.89	74.4	Total vehicle costs	217,437	43.73	90.5
			Insurance costs	8,936	1.80	3.7
7,339	1.72	3.1	Admin. and interest	41,700	8.39	17.4
34,250	8.04	14.3	Pickup and delivery			
24,465	5.74	10.2	Profit	29,786	5.99	12.4
244,644	57.39	102.0	Total operating cost	297,859	59.91	124.0

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
Gross vehicle weight -- 89,286 lbs.
Average payload -- 52,580 lbs.
Estimated annual quantity -- 19,718 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

164.1

Total Operating Cost 199.6

Configuration -- 5 axle semi-trailer unit

Nova Scotia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	5963 tonnes	5963 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1883	\$ 1883
Distance wage	\$ 11544	\$ 0
Hourly wage	\$ 0	\$ 17797
Wage burden	\$ 2860	\$ 4192

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.			
16,287	11.47	20.4	Tractor variable costs		
15,173	10.68	19.0	Driver	23,872	14.41
9,315	6.56	11.6	Fuel	15,173	9.16
179	0.13	0.2	Repairs	11,178	6.75
2,063	1.45	2.6	Cleaning	179	0.11
1,992	1.40	2.5	Transport	2,063	1.24
45,009	31.69	56.3	Tires	3,387	2.04
			Total tractor variable	55,852	33.71
17,745	12.49	22.2	Tractor fixed costs		
1,312	0.92	1.6	Depreciation	17,745	10.71
19,057	13.41	23.8	Licences	1,312	0.79
			Total tractor fixed	19,057	11.50
64,066	45.10	80.1	Tractor total	74,909	45.21
5,019	3.53	6.3	Trailer variable costs		
418	0.29	0.5	Repairs	6,023	3.63
977	0.69	1.2	Cleaning	418	0.25
1,697	1.19	2.1	Transport	977	0.59
8,111	5.70	10.1	Tires	2,800	1.69
			Total trailer variable	10,218	6.16
6,514	4.59	8.1	Trailer fixed costs		
25	0.02		Depreciation	6,514	3.93
6,539	4.61	8.1	Licences	25	0.02
			Total trailer fixed	6,539	3.95
14,650	10.31	18.2	Trailer total	16,757	10.11
78,716	55.41	98.3	Total vehicle costs	91,666	55.32
3,235	2.28	4.0	Insurance costs	3,767	2.27
15,096	10.63	18.9	Admin. and interest	17,580	10.61
10,783	7.59	13.5	Pickup and delivery	12,357	7.58
107,830	75.91	134.7	Profit		
			Total operating cost	125,570	75.70

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	6,573 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

216.8

Total Operating Cost 252.3

Configuration -- 3 axle semi-trailer unit

Nova Scotia

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
40500 kg.	40500 kg.
23850 kg.	23850 kg.
11925 tonnes	11925 tonnes
5.7 hrs.	6.6 hrs.
2841 hrs.	3314 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 3767	\$ 3767
\$ 23088	\$ 0
\$ 0	\$ 35593
\$ 5720	\$ 8384

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
32,575	11.47	20.4	Tractor variable costs			
30,345	10.68	19.0	Driver	47,744	14.41	29.8
10,631	6.56	11.6	Fuel	30,345	9.16	19.0
358	0.13	0.2	Repairs	22,357	6.75	14.0
2,063	0.73	1.3	Cleaning	358	0.11	0.2
3,984	1.40	2.5	Transport	2,063	0.62	1.3
87,956	30.97	55.8	Tires	6,773	2.04	4.2
			Total tractor variable	109,640	33.09	68.5
17,745	6.25	11.1	Tractor fixed costs			
1,312	0.46	0.8	Depreciation	17,745	5.35	11.1
19,057	6.71	11.9	Licences	1,312	0.40	0.8
			Total tractor fixed	19,057	5.75	11.9
107,013	37.68	66.9	Tractor total	128,697	38.84	80.4
10,038	3.53	6.3	Trailer variable costs			
836	0.29	0.5	Repairs	12,046	3.63	7.5
977	0.34	0.6	Cleaning	836	0.25	0.5
3,394	1.19	2.1	Transport	977	0.29	0.6
15,245	5.35	9.5	Tires	5,600	1.69	3.5
			Total trailer variable	19,459	5.86	12.1
6,514	2.29	4.1	Trailer fixed costs			
25	0.01	0.0	Depreciation	6,514	1.97	4.1
6,539	2.30	4.1	Licences	25	0.01	0.0
			Total trailer fixed	6,539	1.98	4.1
21,784	7.65	13.6	Trailer total	25,998	7.84	16.2
128,797	45.33	80.5	Total vehicle costs	154,695	46.68	96.6
5,293	1.86	3.3	Insurance costs	6,357	1.92	4.0
24,701	8.70	15.4	Admin. and interest	29,668	8.95	18.5
17,644	6.21	11.0	Pickup and delivery	21,191	6.39	13.2
176,435	62.10	110.2	Profit			
			Total operating cost	211,911	63.94	132.3

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 Imperial Equivalent Summary

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 89,286 lbs.
 Average payload -- 52,580 lbs.
 Estimated annual quantity -- 13,145 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

177.3

Total Operating Cost 212.9

.....

Configuration -- 5 axle semi-trailer unit

Nova Scotia

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	17888 tonnes	17888 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5650	\$ 5650
Distance wage	\$ 34632	\$ 0
Hourly wage	\$ 0	\$ 53390
Wage burden	\$ 8580	\$ 12576

C. Total Operating Costs

Gravel Roads

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.			
48,862	11.47	20.4	Tractor variable costs		
45,518	10.68	19.0	Driver	71,616	14.41
27,946	6.56	11.6	Fuel	45,518	9.16
537	0.13	0.2	Repairs	33,535	6.75
2,063	0.48	0.9	Cleaning	537	0.11
5,976	1.40	2.5	Transport	2,063	0.41
130,902	30.72	54.6	Tires	10,160	2.04
			Total tractor variable	163,429	32.88
17,745	4.16	7.4	Tractor fixed costs		
1,312	0.31	0.5	Depreciation	17,745	3.57
19,057	4.47	7.9	Licences	1,312	0.26
			Total tractor fixed	19,057	3.83
149,959	35.19	62.5	Tractor total	182,486	36.71
15,058	3.53	6.3	Trailer variable costs		
1,254	0.29	0.5	Repairs	18,069	3.63
977	0.23	0.4	Cleaning	1,254	0.25
5,091	1.19	2.1	Transport	977	0.20
22,380	5.24	9.3	Tires	8,400	1.69
			Total trailer variable	28,700	5.77
6,514	1.53	2.7	Trailer fixed costs		
25	0.01		Depreciation	6,514	1.31
6,539	1.54	2.7	Licences	25	0.01
			Total trailer fixed	6,539	1.32
28,919	6.78	12.0	Trailer total	35,239	7.09
178,878	41.97	74.5	Total vehicle costs	217,725	43.80
7,351	1.73	3.1	Insurance costs	8,948	1.80
34,305	8.05	14.3	Admin. and interest	41,756	8.40
			Pickup and delivery		
24,504	5.75	10.2	Profit	29,825	6.00
245,038	57.50	102.1	Total operating cost	298,254	60.00

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	19,718 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

164.3 Total Operating Cost 199.7

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	5963 tonnes	5963 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1548	\$ 1548
Distance wage	\$ 9696	\$ 0
Hourly wage	\$ 0	\$ 14632
Wage burden	\$ 2395	\$ 3446

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
13,639	9.60	17.0	Tractor variable costs			
14,995	10.56	18.7	Driver	19,626	11.84	24.5
9,315	6.56	11.6	Fuel	14,995	9.05	18.7
179	0.13	0.2	Repairs	11,178	6.75	14.0
2,063	1.45	2.6	Cleaning	179	0.11	0.2
1,992	1.40	2.5	Transport	2,063	1.24	2.6
42,183	29.70	52.6	Tires	3,387	2.04	4.2
			Total tractor variable	51,428	31.03	64.2
			Tractor fixed costs			
17,745	12.49	22.2	Depreciation	17,745	10.71	22.2
1,173	0.83	1.5	Licences	1,173	0.71	1.5
18,918	13.32	23.7	Total tractor fixed	18,918	11.42	23.7
61,101	43.02	76.3	Tractor total	70,346	42.45	87.9
			Trailer variable costs			
5,019	3.53	6.3	Repairs	6,023	3.63	7.5
418	0.29	0.5	Cleaning	418	0.25	0.5
977	0.69	1.2	Transport	977	0.59	1.2
1,697	1.19	2.1	Tires	2,800	1.69	3.5
8,111	5.70	10.1	Total trailer variable	10,218	6.16	12.7
			Trailer fixed costs			
6,514	4.59	8.1	Depreciation	6,514	3.93	8.1
25	0.02		Licences	25	0.02	
6,539	4.61	8.1	Total trailer fixed	6,539	3.95	8.1
14,650	10.31	18.2	Trailer total	16,757	10.11	20.8
75,751	53.33	94.5	Total vehicle costs	87,103	52.56	108.7
3,113	2.19	3.9	Insurance costs	3,580	2.16	4.5
14,528	10.23	18.2	Admin. and interest	16,705	10.08	20.9
10,377	7.31	13.0	Pickup and delivery			
103,769	73.06	129.6	Profit	11,932	7.20	14.9
			Total operating cost	119,320	72.00	149.0

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	6,573 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

208.6

Total Operating Cost 239.8

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	11925 tonnes	11925 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3097	\$ 3097
Distance wage	\$ 19392	\$ 0
Hourly wage	\$ 0	\$ 29263
Wage burden	\$ 4790	\$ 6893

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,279	9.60	17.0	Tractor variable costs	39,253	11.04	24.5
29,991	10.56	18.7	Driver	29,991	9.05	18.7
18,631	6.56	11.6	Fuel	22,357	6.75	14.0
358	0.13	0.2	Repairs	358	0.11	0.2
2,063	0.73	1.3	Cleaning	2,063	0.62	1.3
3,984	1.40	2.5	Transport	6,773	2.04	4.2
82,306	28.98	51.3	Tires	100,795	30.41	62.9
			Total tractor variable			
17,745	6.25	11.1	Tractor fixed costs	17,745	5.35	11.1
1,173	0.41	0.7	Depreciation	1,173	0.35	0.7
18,918	6.66	11.8	Licences	18,918	5.70	11.8
			Total tractor fixed			
101,224	35.64	63.1	Tractor total	119,713	36.11	74.7
			Trailer variable costs			
10,038	3.53	6.3	Repairs	12,046	3.63	7.5
836	0.29	0.5	Cleaning	836	0.25	0.5
977	0.34	0.6	Transport	977	0.29	0.6
3,394	1.19	2.1	Tires	5,600	1.69	3.5
15,245	5.35	9.5	Total trailer variable	19,459	5.86	12.1
			Trailer fixed costs			
6,514	2.29	4.1	Depreciation	6,514	1.97	4.1
25	0.01		Licences	25	0.01	
6,539	2.30	4.1	Total trailer fixed	6,539	1.98	4.1
21,784	7.65	13.6	Trailer total	25,998	7.84	16.2
123,008	43.29	76.7	Total vehicle costs	145,711	43.95	90.9
5,055	1.70	3.2	Insurance costs	5,988	1.81	3.7
23,591	8.30	14.7	Admin. and interest	27,945	8.43	17.5
16,850	5.93	10.5	Pickup and delivery	19,960	6.02	12.5
168,504	59.30	105.1	Profit	199,604	60.21	124.6
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	13,145 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

169.1 Total Operating Cost 200.5

Configuration -- 5 axle semi-trailer unit

P.E.I.

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Gross Vehicle Weight	Paved Road	Gravel Road
	Average Payload	40500 kg.	40500 kg.
	Estimated Annual Quantity	23850 kg.	23850 kg.
	Trip Running Time	17888 tonnes	17888 tonnes
	Annual Running Hours	5.7 hrs.	6.6 hrs.
B. Driver Costs	Load - unload time cost	4261 hrs.	4971 hrs.
	Distance wage	\$ 4645	\$ 4645
	Hourly wage	\$ 29088	\$ 0
	Wage burden	\$ 0	\$ 43895
C. Total Operating Costs		\$ 7185	\$ 10339

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
40,918	9.60	17.0	Tractor variable costs			
44,986	10.56	18.7	Driver	58,879	11.84	24.5
27,946	6.56	11.6	Fuel	44,986	9.05	18.7
537	0.13	0.2	Repairs	33,535	6.75	14.0
2,063	0.48	0.9	Cleaning	537	0.11	0.2
5,976	1.40	2.5	Transport	2,063	0.41	0.9
122,426	28.73	50.9	Tires	10,160	2.04	4.2
			Total tractor variable	150,160	30.20	62.5
17,745	4.16	7.4	Tractor fixed costs			
1,173	0.28	0.5	Depreciation	17,745	3.57	7.4
18,918	4.44	7.9	Licences	1,173	0.24	0.5
			Total tractor fixed	18,918	3.81	7.9
141,344	33.17	58.8	Tractor total	169,078	34.01	70.4
15,058	3.53	6.3	Trailer variable costs			
1,254	0.29	0.5	Repairs	18,069	3.63	7.5
977	0.23	0.4	Cleaning	1,254	0.25	0.5
5,091	1.19	2.1	Transport	977	0.20	0.4
22,380	5.24	9.3	Tires	8,400	1.69	3.5
			Total trailer variable	28,700	5.77	11.9
6,514	1.53	2.7	Trailer fixed costs			
25	0.01		Depreciation	6,514	1.31	2.7
6,539	1.54	2.7	Licences	25	0.01	
			Total trailer fixed	6,539	1.32	2.7
28,919	6.78	12.0	Trailer total	35,239	7.09	14.6
170,263	39.95	70.8	Total vehicle costs	204,317	41.10	85.0
6,997	1.64	2.9	Insurance costs	8,397	1.69	3.5
32,653	7.66	13.6	Admin. and interest	39,184	7.88	16.3
23,324	5.47	9.7	Pickup and delivery			
233,237	54.72	97.0	Profit	27,989	5.63	11.7
			Total operating cost	279,887	56.30	116.5

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	19,718 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

156.1

Total Operating Cost 187.5

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	5963 tonnes	5963 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 1994	\$ 1994
Distance wage	\$ 11800	\$ 0
Hourly wage	\$ 0	\$ 18840
Wage burden	\$ 2938	\$ 4438

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
16,732	11.78	20.9	Tractor variable costs			
16,911	11.91	21.1	Driver	25,272	15.25	31.6
10,211	7.19	12.8	Fuel	16,911	10.21	21.1
299	0.21	0.4	Repairs	12,253	7.39	15.3
1,846	1.30	2.3	Cleaning	299	0.18	0.4
1,992	1.40	2.5	Transport	1,846	1.11	2.3
47,991	33.79	60.0	Tires	3,387	2.04	4.2
			Total tractor variable	59,968	36.18	74.9
			Tractor fixed costs			
18,096	12.74	22.6	Depreciation	18,096	10.92	22.6
1,450	1.02	1.8	Licences	1,450	0.88	1.8
19,546	13.76	24.4	Total tractor fixed	19,546	11.80	24.4
67,537	47.55	84.4	Tractor total	79,514	47.98	99.3
			Trailer variable costs			
4,886	3.44	6.1	Repairs	5,863	3.54	7.3
358	0.25	0.4	Cleaning	358	0.22	0.4
1,194	0.84	1.5	Transport	1,194	0.72	1.5
2,140	1.51	2.7	Tires	3,530	2.13	4.4
8,578	6.04	10.7	Total trailer variable	10,945	6.61	13.6
			Trailer fixed costs			
6,633	4.67	8.3	Depreciation	6,633	4.00	8.3
25	0.02		Licences	25	0.02	
6,658	4.69	8.3	Total trailer fixed	6,658	4.02	8.3
15,236	10.73	19.0	Trailer total	17,603	10.63	21.9
82,773	58.28	103.4	Total vehicle costs	97,117	58.61	121.2
3,402	2.40	4.3	Insurance costs	3,991	2.41	5.0
15,874	11.18	19.8	Admin. and interest	18,625	11.24	23.3
11,339	7.98	14.2	Pickup and delivery			
113,388	79.84	141.7	Profit	13,304	8.03	16.6
			Total operating cost	133,037	80.29	166.1

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	6,573 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

228.0 Total Operating Cost 267.3

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	40500 kg.	40500 kg.
Average Payload	23850 kg.	23850 kg.
Estimated Annual Quantity	11925 tonnes	11925 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3988	\$ 3988
Distance wage	\$ 23600	\$ 0
Hourly wage	\$ 0	\$ 37681
Wage burden	\$ 5876	\$ 8875

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
33,464	11.78	20.9	Tractor variable costs			
33,822	11.91	21.1	Driver	50,544	15.25	31.6
20,422	7.19	12.8	Fuel	33,822	10.21	21.1
597	0.21	0.4	Repairs	24,507	7.39	15.3
1,846	0.65	1.2	Cleaning	597	0.18	0.4
3,984	1.40	2.5	Transport	1,846	0.56	1.2
94,135	33.14	58.9	Tires	6,773	2.04	4.2
			Total tractor variable	118,089	35.63	73.8
			Tractor fixed costs			
18,096	6.37	11.3	Depreciation	18,096	5.46	11.3
1,450	0.51	0.9	Licences	1,450	0.44	0.9
19,546	6.88	12.2	Total tractor fixed	19,546	5.90	12.2
113,681	40.02	71.1	Tractor total	137,635	41.53	86.0
			Trailer variable costs			
9,771	3.44	6.1	Repairs	11,726	3.54	7.3
717	0.25	0.4	Cleaning	717	0.22	0.4
1,194	0.42	0.7	Transport	1,194	0.36	0.7
4,279	1.51	2.7	Tires	7,061	2.13	4.4
15,961	5.62	9.9	Total trailer variable	20,698	6.25	12.8
			Trailer fixed costs			
6,633	2.34	4.1	Depreciation	6,633	2.00	4.1
25	0.01		Licences	25	0.01	
6,658	2.35	4.1	Total trailer fixed	6,658	2.01	4.1
22,619	7.97	14.0	Trailer total	27,356	8.26	16.9
136,300	47.99	85.1	Total vehicle costs	164,991	49.79	102.9
			Insurance costs	6,780	2.05	4.2
5,601	1.97	3.5	Admin. and interest	31,642	9.55	19.8
26,140	9.20	16.3	Pickup and delivery			
18,671	6.57	11.7	Profit	22,601	6.82	14.1
186,712	65.73	116.6	Total operating cost	226,014	68.21	141.0

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	89,286 lbs.
Average payload --	52,580 lbs.
Estimated annual quantity --	13,145 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

187.6 Total Operating Cost 226.9

Configuration -- 5 axle semi-trailer unit

Newfoundland

Commodity -- Bulk

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	40500 kg.	40500 kg.
	Average Payload	23850 kg.	23850 kg.
	Estimated Annual Quantity	17888 tonnes	17888 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 5982	\$ 5982
	Distance wage	\$ 35400	\$ 0
	Hourly wage	\$ 0	\$ 56521
	Wage burden	\$ 8814	\$ 13313

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
			Tractor variable costs			
50,196	11.78	20.9	Driver	75,816	15.25	31.6
50,733	11.91	21.1	Fuel	50,733	10.21	21.1
30,633	7.19	12.8	Repairs	36,760	7.39	15.3
896	0.21	0.4	Cleaning	896	0.18	0.4
1,846	0.43	0.8	Transport	1,846	0.37	0.8
5,976	1.40	2.5	Tires	10,160	2.04	4.2
140,280	32.92	58.5	Total tractor variable	176,211	35.44	73.4
			Tractor fixed costs			
18,096	4.25	7.5	Depreciation	18,096	3.64	7.5
1,450	0.34	0.6	Licences	1,450	0.29	0.6
19,546	4.59	8.1	Total tractor fixed	19,546	3.93	8.1
159,826	37.51	66.6	Tractor total	195,757	39.37	81.5
			Trailer variable costs			
14,657	3.44	6.1	Repairs	17,589	3.54	7.3
1,075	0.25	0.4	Cleaning	1,075	0.22	0.4
1,194	0.28	0.5	Transport	1,194	0.24	0.5
6,419	1.51	2.7	Tires	10,591	2.13	4.4
23,345	5.48	9.7	Total trailer variable	30,449	6.13	12.6
			Trailer fixed costs			
6,633	1.56	2.8	Depreciation	6,633	1.33	2.8
25	0.01		Licences	25	0.01	
6,658	1.57	2.8	Total trailer fixed	6,658	1.34	2.8
30,003	7.05	12.5	Trailer total	37,107	7.47	15.4
189,829	44.56	79.1	Total vehicle costs	232,864	46.84	96.9
7,801	1.83	3.3	Insurance costs	9,570	1.93	4.0
36,405	8.54	15.2	Admin. and interest	44,659	8.98	18.6
			Pickup and delivery			
26,004	6.10	10.8	Profit	31,899	6.42	13.3
260,039	61.03	108.4	Total operating cost	318,992	64.17	132.8

Imperial Equivalent Summary

A.	Annual distance travelled --	149,136 mi.
	Gross vehicle weight --	89,286 lbs.
	Average payload --	52,580 lbs.
	Estimated annual quantity --	19,718 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

174.4 Total Operating Cost 213.7

Configuration -- 5 axle semi-trailer unit

N.W.T.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization			Paved Road	Gravel Road	
Gross Vehicle Weight			37000 kg.	37000 kg.	
Average Payload			21480 kg.	21480 kg.	
Estimated Annual Quantity			5370 tonnes	5370 tonnes	
Trip Running Time			5.7 hrs.	6.6 hrs.	
Annual Running Hours			1420 hrs.	1657 hrs.	
B. Driver Costs					
Load - unload time cost			\$ 1658	\$ 1658	
Distance wage			\$ 12824	\$ 0	
Hourly wage			\$ 0	\$ 17399	
Wage burden			\$ 3693	\$ 4860	
C. Total Operating Costs					
P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
18,175	12.80	22.7	23,917	14.43	29.9
17,218	12.12	21.5	17,218	10.39	21.5
9,880	6.96	12.4	11,856	7.15	14.8
597	0.42	0.7	597	0.36	0.7
3,149	2.22	3.9	3,149	1.90	3.9
3,535	2.49	4.4	6,010	3.63	7.5
52,554	37.01	65.6	62,747	37.86	78.3
Tractor fixed costs					
16,244	11.44	20.3	16,244	9.80	20.3
816	0.57	1.0	816	0.49	1.0
17,060	12.01	21.3	17,060	10.29	21.3
69,614	49.02	86.9	79,807	48.15	99.6
Trailer variable costs					
5,700	4.01	7.1	6,840	4.13	8.6
836	0.59	1.0	836	0.50	1.0
2,063	1.45	2.6	2,063	1.24	2.6
3,458	2.43	4.3	5,706	3.44	7.1
12,057	8.48	15.0	15,445	9.31	19.3
Trailer fixed costs					
5,922	4.17	7.4	5,922	3.57	7.4
28	0.02		28	0.02	
5,950	4.19	7.4	5,950	3.59	7.4
18,007	12.67	22.4	21,395	12.90	26.7
87,621	61.69	109.3	101,202	61.05	126.3
Insurance costs					
3,601	2.54	4.5	4,159	2.51	5.2
16,804	11.83	21.0	19,409	11.71	24.3
12,003	8.45	15.0	13,863	8.37	17.3
120,029	84.51	149.8	138,633	83.64	173.1

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	81,570 lbs.
	Average payload --	47,355 lbs.
	Estimated annual quantity --	5,919 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

241.1 Total Operating Cost 278.6

Configuration -- 5 axle semi-trailer unit

N.W.T.

Commodity -- Bulk

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	37000 kg.	37000 kg.
	Average Payload	21480 kg.	21480 kg.
	Estimated Annual Quantity	10740 tonnes	10740 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2841 hrs.	3314 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 3317	\$ 3317
	Distance wage	\$ 25648	\$ 0
	Hourly wage	\$ 0	\$ 34798
	Wage burden	\$ 7386	\$ 9719

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
36,351	12.80	22.7	Driver	47,834	14.43	29.9
34,437	12.12	21.5	Fuel	34,437	10.39	21.5
19,760	6.96	12.4	Repairs	23,712	7.15	14.8
1,194	0.42	0.7	Cleaning	1,194	0.36	0.7
3,149	1.11	2.0	Transport	3,149	0.95	2.0
7,071	2.49	4.4	Tires	12,020	3.63	7.5
101,962	35.90	63.7	Total tractor variable	122,346	36.91	76.4
			Tractor fixed costs			
16,244	5.72	10.2	Depreciation	16,244	4.90	10.2
816	0.29	0.5	Licences	816	0.25	0.5
17,060	6.01	10.7	Total tractor fixed	17,060	5.15	10.7
119,022	41.91	74.4	Tractor total	139,406	42.06	87.1
			Trailer variable costs			
11,400	4.01	7.1	Repairs	13,680	4.13	8.6
1,672	0.59	1.0	Cleaning	1,672	0.50	1.0
2,063	0.73	1.3	Transport	2,063	0.62	1.3
6,917	2.44	4.3	Tires	11,413	3.44	7.1
22,052	7.77	13.7	Total trailer variable	28,828	8.69	18.0
			Trailer fixed costs			
5,922	2.08	3.7	Depreciation	5,922	1.79	3.7
28	0.01		Licences	28	0.01	
5,950	2.09	3.7	Total trailer fixed	5,950	1.80	3.7
28,002	9.86	17.4	Trailer total	34,778	10.49	21.7
147,024	51.77	91.8	Total vehicle costs	174,184	52.55	108.8
6,042	2.13	3.8	Insurance costs	7,158	2.16	4.5
28,196	9.93	17.6	Admin. and interest	33,405	10.08	20.9
			Pickup and delivery			
20,140	7.09	12.6	Profit	23,861	7.20	14.9
201,402	70.92	125.8	Total operating cost	238,608	71.99	149.1

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 99,424 mi. *
 * Gross vehicle weight -- 81,570 lbs. *
 * Average payload -- 47,355 lbs. *
 * Estimated annual quantity -- 11,839 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * P a v e d r o a d s G r a v e l r o a d s *
 *
 * 202.4 Total Operating Cost 239.9 *

Configuration -- 5 axle semi-trailer unit

N.W.T.

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

	Paved Road	Gravel Road
Gross Vehicle Weight	37000 kg.	37000 kg.
Average Payload	21480 kg.	21480 kg.
Estimated Annual Quantity	16110 tonnes	16110 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

	Paved Road	Gravel Road
Load - unload time cost	\$ 4975	\$ 4975
Distance wage	\$ 38472	\$ 0
Hourly wage	\$ 0	\$ 52197
Wage burden	\$ 11079	\$ 14579

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
54,526	12.80	22.7	Tractor variable costs			
51,655	12.12	21.5	Driver	71,751	14.43	29.9
29,640	6.96	12.4	Fuel	51,655	10.39	21.5
1,791	0.42	0.7	Repairs	35,568	7.15	14.8
3,149	0.74	1.3	Cleaning	1,791	0.36	0.7
10,606	2.49	4.4	Transport	3,149	0.63	1.3
151,367	35.53	63.0	Tires	18,030	3.63	7.5
			Total tractor variable	181,944	36.59	75.7
16,244	3.81	6.8	Tractor fixed costs			
816	0.19	0.3	Depreciation	16,244	3.27	6.8
17,060	4.00	7.1	Licences	816	0.16	0.3
			Total tractor fixed	17,060	3.43	7.1
168,427	39.53	70.1	Tractor total	199,004	40.02	82.8
17,100	4.01	7.1	Trailer variable costs			
2,508	0.59	1.0	Repairs	20,520	4.13	8.6
2,063	0.48	0.9	Cleaning	2,508	0.50	1.0
10,375	2.43	4.3	Transport	2,063	0.41	0.9
32,046	7.51	13.3	Tires	17,119	3.44	7.1
			Total trailer variable	42,210	8.48	17.6
5,922	1.39	2.5	Trailer fixed costs			
28	0.01		Depreciation	5,922	1.19	2.5
5,950	1.40	2.5	Licences	28	0.01	
			Total trailer fixed	5,950	1.20	2.5
37,996	8.91	15.8	Trailer total	48,160	9.68	20.1
206,423	48.44	95.9	Total vehicle costs	247,164	49.70	102.9
8,483	1.99	3.5	Insurance costs	10,157	2.04	4.2
39,588	9.29	16.5	Admin. and interest	47,401	9.54	19.8
28,277	6.64	11.8	Pickup and delivery			
282,771	66.36	117.7	Profit	33,858	6.81	14.1
			Total operating cost	338,580	68.09	141.0

***** Imperial Equivalent Summary *****

A. Annual distance travelled -- 149,136 mi.
Gross vehicle weight -- 81,570 lbs.
Average payload -- 47,355 lbs.
Estimated annual quantity -- 17,758 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
189.4	Total Operating Cost 226.9

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	43200 kg.	43200 kg.
	Average Payload	27210 kg.	27210 kg.
	Estimated Annual Quantity	6803 tonnes	6803 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 2447	\$ 2447
	Distance wage	\$ 19480	\$ 0
	Hourly wage	\$ 0	\$ 20266
	Wage burden	\$ 4934	\$ 5110

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
26,861	18.91	33.6	Tractor variable costs	27,823	16.79	34.8
17,375	12.23	21.7	Driver	17,375	10.49	21.7
11,454	8.06	14.3	Fuel	13,745	8.29	17.2
776	0.55	1.0	Repairs	776	0.47	1.0
4,126	2.90	5.2	Cleaning	4,126	2.49	5.2
3,920	2.76	4.9	Transport	6,663	4.02	8.3
64,512	45.41	80.7	Tires	70,508	42.55	88.2
			Total tractor variable			
			Tractor fixed costs			
16,212	11.41	20.3	Depreciation	16,212	9.78	20.3
1,240	0.87	1.6	Licences	1,240	0.75	1.6
17,452	12.28	21.9	Total tractor fixed	17,452	10.53	21.9
81,964	57.69	102.6	Tractor total	87,960	53.08	110.1
			Trailer variable costs			
5,781	4.07	7.2	Repairs	6,938	4.19	8.7
537	0.38	0.7	Cleaning	537	0.32	0.7
2,714	1.91	3.4	Transport	2,714	1.64	3.4
3,535	2.49	4.4	Tires	5,833	3.52	7.3
12,567	8.85	15.7	Total trailer variable	16,022	9.67	20.1
			Trailer fixed costs			
5,922	4.17	7.4	Depreciation	5,922	3.57	7.4
10	0.01		Licences	10	0.01	
5,932	4.18	7.4	Total trailer fixed	5,932	3.58	7.4
18,499	13.03	23.1	Trailer total	21,954	13.25	27.5
100,463	70.72	125.7	Total vehicle costs	109,914	66.33	137.6
4,129	2.91	5.2	Insurance costs	4,517	2.73	5.6
19,267	13.57	24.1	Admin. and interest	21,080	12.72	26.4
13,762	9.69	17.2	Pickup and delivery	15,057	9.09	18.8
137,621	96.89	172.2	Profit	150,568	90.87	188.4
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	95,239 lbs.
	Average payload --	59,987 lbs.
	Estimated annual quantity --	7,499 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

277.1 Total Operating Cost 303.2

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	43200 kg.	43200 kg.
Average Payload	27210 kg.	27210 kg.
Estimated Annual Quantity	13605 tonnes	13605 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4894	\$ 4894
Distance wage	\$ 38960	\$ 0
Hourly wage	\$ 0	\$ 40531
Wage burden	\$ 9867	\$ 10221

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
53,721	18.91	33.6	Tractor variable costs			
34,751	12.23	21.7	Driver	55,646	16.79	34.8
22,908	8.06	14.3	Fuel	34,751	10.49	21.7
1,553	0.55	1.0	Repairs	27,490	8.29	17.2
4,126	1.45	2.6	Cleaning	1,553	0.47	1.0
7,839	2.76	4.9	Transport	4,126	1.24	2.6
124,898	43.96	78.1	Tires	13,327	4.02	8.3
			Total tractor variable	136,893	41.30	85.6
16,212	5.71	10.1	Tractor fixed costs			
1,240	0.44	0.8	Depreciation	16,212	4.89	10.1
17,452	6.15	10.9	Licences	1,240	0.37	0.8
			Total tractor fixed	17,452	5.26	10.9
142,350	50.11	89.0	Tractor total	154,345	46.56	96.5
11,563	4.07	7.2	Trailer variable costs			
1,075	0.38	0.7	Repairs	13,875	4.19	8.7
2,714	0.96	1.7	Cleaning	1,075	0.32	0.7
7,071	2.49	4.4	Transport	2,714	0.82	1.7
22,423	7.90	14.0	Tires	11,667	3.52	7.3
			Total trailer variable	29,331	8.85	18.4
5,922	2.00	3.7	Trailer fixed costs			
10			Depreciation	5,922	1.79	3.7
5,932	2.00	3.7	Licences	10		
			Total trailer fixed	5,932	1.79	3.7
28,355	9.98	17.7	Trailer total	35,263	10.64	22.1
170,705	60.09	106.7	Total vehicle costs	189,608	57.20	118.6
7,015	2.47	4.4	Insurance costs	7,792	2.35	4.9
32,738	11.52	20.5	Admin. and interest	36,363	10.97	22.7
23,304	8.23	14.6	Pickup and delivery			
233,842	82.31	146.2	Profit	25,974	7.84	16.2
			Total operating cost	259,737	78.36	162.4

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	95,239 lbs.
Average payload --	59,987 lbs.
Estimated annual quantity --	14,997 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

235.3

Total Operating Cost 261.4

Configuration -- 5 axle semi-trailer unit

Yukon

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	43200 kg.	43200 kg.
Average Payload	27210 kg.	27210 kg.
Estimated Annual Quantity	20400 tonnes	20400 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7341	\$ 7341
Distance wage	\$ 58440	\$ 0
Hourly wage	\$ 0	\$ 60797
Wage burden	\$ 14801	\$ 15331

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
80,582	18.91	33.6	Tractor variable costs	83,469	16.79	34.8
52,126	12.23	21.7	Driver	52,126	10.49	21.7
34,363	8.06	14.3	Fuel	41,235	8.29	17.2
2,329	0.55	1.0	Repairs	2,329	0.47	1.0
4,126	0.97	1.7	Cleaning	4,126	0.83	1.7
11,759	2.76	4.9	Transport	19,990	4.02	8.3
105,285	43.48	77.2	Tires	203,275	40.89	84.7
			Total tractor variable			
16,212	3.80	6.8	Tractor fixed costs	16,212	3.26	6.8
1,240	0.29	0.5	Depreciation	1,240	0.25	0.5
17,452	4.09	7.3	Licences	17,452	3.51	7.3
			Total tractor fixed			
202,737	47.57	84.5	Tractor total	220,727	44.40	92.0
			Trailer variable costs			
17,344	4.07	7.2	Repairs	20,813	4.19	8.7
1,612	0.38	0.7	Cleaning	1,612	0.32	0.7
2,714	0.64	1.1	Transport	2,714	0.55	1.1
10,606	2.49	4.4	Tires	17,500	3.52	7.3
32,276	7.58	13.4	Total trailer variable	42,639	8.58	17.8
			Trailer fixed costs			
5,922	1.39	2.5	Depreciation	5,922	1.19	2.5
10			Licences	10		
5,932	1.39	2.5	Total trailer fixed	5,932	1.19	2.5
38,208	8.97	15.9	Trailer total	48,571	9.77	20.3
240,945	56.54	100.4	Total vehicle costs	269,298	54.17	112.3
9,902	2.32	4.1	Insurance costs	11,067	2.23	4.6
46,209	10.84	19.3	Admin. and interest	51,646	10.39	21.5
33,006	7.75	13.8	Pickup and delivery	36,890	7.42	15.4
330,062	77.45	137.6	Profit	368,901	74.21	153.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	95,239 lbs.
Average payload --	59,987 lbs.
Estimated annual quantity --	22,496 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

221.4 Total Operating Cost 247.5

7/8 AXLE

SEMI-TRAILER AND PUP

DRY FREIGHT



Configuration -- semi-trailer and pup 8 axles

British Columbia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
63500 kg.	63500 kg.
34200 kg.	34200 kg.
8550 tonnes	8550 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 16578	\$ 16578
\$ 23440	\$ 0
\$ 0	\$ 34212
\$ 9764	\$ 12393

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,782	35.05	62.2	Tractor variable costs			
19,515	13.74	24.4	Driver	63,183	38.13	79.0
11,716	8.25	14.6	Fuel	19,515	11.78	24.4
208	0.15	0.3	Repairs	14,059	8.48	17.6
3,400	2.39	4.3	Cleaning	208	0.13	0.3
2,780	1.96	3.5	Transport	3,400	2.05	4.3
87,401	61.54	109.3	Tires	4,727	2.85	5.9
			Total tractor variable	105,092	63.42	131.5
17,565	12.37	22.0	Tractor fixed costs			
2,677	1.88	3.3	Depreciation	17,565	10.60	22.0
20,242	14.25	25.3	Licences	2,677	1.62	3.3
			Total tractor fixed	20,242	12.22	25.3
107,643	75.79	134.6	Tractor total	125,334	75.64	156.8
5,297	3.73	6.6	Trailer variable costs			
1,045	0.74	1.3	Repairs	6,357	3.84	7.9
2,150	1.51	2.7	Cleaning	1,045	0.63	1.3
2,414	1.70	3.0	Transport	2,150	1.30	2.7
10,906	7.68	13.6	Tires	3,984	2.40	5.0
			Total trailer variable	13,536	8.17	16.9
4,675	3.29	5.8	Trailer fixed costs			
50	0.04	0.1	Depreciation	4,675	2.82	5.8
4,725	3.33	5.9	Licences	50	0.03	0.1
			Total trailer fixed	4,725	2.85	5.9
15,631	11.01	19.5	Trailer total	18,261	11.02	22.8
123,274	86.80	154.1	Total vehicle costs	143,595	86.66	179.6
5,066	3.57	6.3	Insurance costs	5,901	3.56	7.4
23,642	16.65	29.6	Admin. and interest	27,539	16.62	34.4
16,887	11.89	21.1	Pickup and delivery	19,670	11.87	24.6
168,869	118.91	211.1	Profit			
			Total operating cost	196,705	118.71	246.0

.....
 * Imperial Equivalent Summary *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 139,992 lbs.
 Average payload -- 75,397 lbs.
 Estimated annual quantity -- 9,425 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

339.7

Total Operating Cost 395.9

.....

Configuration -- semi-trailer and pup @ axles

British Columbia

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	34200 kg.	34200 kg.
Estimated Annual Quantity	17100 tonnes	17100 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 33155	\$ 33155
Distance wage	\$ 46880	\$ 0
Hourly wage	\$ 0	\$ 68423
Wage burden	\$ 19529	\$ 24785

C. Total Operating Costs

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
99,564	35.05	62.2	Tractor variable costs	126,363	38.13	79.0
39,030	13.74	24.4	Driver	39,030	11.78	24.4
23,432	8.25	14.6	Fuel	28,118	8.48	17.6
416	0.15	0.3	Repairs	416	0.13	0.3
3,400	1.20	2.1	Cleaning	3,400	1.03	2.1
5,561	1.96	3.5	Transport	9,453	2.85	5.9
171,403	60.35	107.1	Tires	206,780	62.40	129.3
			Total tractor variable			
17,565	6.18	11.0	Tractor fixed costs	17,565	5.30	11.0
2,677	0.94	1.7	Depreciation	2,677	0.81	1.7
20,242	7.12	12.7	Licences	20,242	6.11	12.7
			Total tractor fixed			
191,645	67.47	119.8	Tractor total	227,022	68.51	142.0
			Trailer variable costs			
10,594	3.73	6.6	Repairs	12,713	3.84	7.9
2,090	0.74	1.3	Cleaning	2,090	0.63	1.3
2,150	0.76	1.3	Transport	2,150	0.65	1.3
4,829	1.70	3.0	Tires	7,968	2.40	5.0
19,663	6.93	12.2	Total trailer variable	24,921	7.52	15.5
			Trailer fixed costs			
4,675	1.65	2.9	Depreciation	4,675	1.41	2.9
50	0.02		Licences	50	0.02	
4,725	1.67	2.9	Total trailer fixed	4,725	1.43	2.9
24,388	8.60	15.1	Trailer total	29,646	8.95	18.4
216,033	76.07	134.9	Total vehicle costs	256,668	77.46	160.4
8,878	3.13	5.5	Insurance costs	10,548	3.18	6.6
41,431	14.59	25.9	Admin. and interest	49,224	14.85	30.8
29,593	10.42	18.5	Pickup and delivery	35,160	10.61	22.0
295,935	104.21	184.8	Profit	351,600	106.10	219.8
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	139,992 lbs.
Average payload --	75,397 lbs.
Estimated annual quantity --	18,849 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

297.4 Total Operating Cost 353.7

Configuration -- semi-trailer and pup 8 axles

British Columbia

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
63500 kg.	63500 kg.
34200 kg.	34200 kg.
25650 tonnes	25650 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 49733	\$ 49733
\$ 70320	\$ 0
\$ 0	\$ 102635
\$ 29293	\$ 37178

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
149,346	35.05	62.2	Tractor variable costs			
58,545	13.74	24.4	Driver	189,546	38.13	79.0
35,148	8.25	14.6	Fuel	58,545	11.78	24.4
623	0.15	0.3	Repairs	42,177	8.48	17.6
3,400	0.80	1.4	Cleaning	623	0.13	0.3
8,341	1.96	3.5	Transport	3,400	0.68	1.4
255,403	59.95	106.4	Tires	14,180	2.85	5.9
			Total tractor variable	308,471	62.05	128.6
17,565	4.12	7.3	Tractor fixed costs			
2,677	0.63	1.1	Depreciation	17,565	3.53	7.3
20,242	4.75	8.4	Licences	2,677	0.54	1.1
			Total tractor fixed	20,242	4.07	8.4
275,645	64.70	114.8	Tractor total	328,713	66.12	137.0
15,892	3.73	6.6	Trailer variable costs			
3,135	0.74	1.3	Repairs	19,070	3.84	7.9
2,150	0.50	0.9	Cleaning	3,135	0.63	1.3
7,243	1.70	3.0	Transport	2,150	0.43	0.9
28,420	6.67	11.8	Tires	11,952	2.40	5.0
			Total trailer variable	36,307	7.30	15.1
4,675	1.10	1.9	Trailer fixed costs			
50	0.01		Depreciation	4,675	0.94	1.9
4,725	1.11	1.9	Licences	50	0.01	
			Total trailer fixed	4,725	0.95	1.9
33,145	7.78	13.7	Trailer total	41,032	8.25	17.0
308,790	72.48	128.5	Total vehicle costs	369,745	74.37	154.0
12,690	2.98	5.3	Insurance costs	15,195	3.06	6.3
59,220	13.90	24.7	Admin. and interest	70,910	14.26	29.5
42,300	9.93	17.6	Pickup and delivery			
423,000	99.29	176.1	Profit	50,650	10.19	21.1
			Total operating cost	506,500	101.88	210.9

 Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 139,992 lbs.
 Average payload -- 75,397 lbs.
 Estimated annual quantity -- 28,274 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

283.4

Total Operating Cost 339.4

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	53500 kg.	53500 kg.
	Average Payload	30710 kg.	30710 kg.
	Estimated Annual Quantity	7678 tonnes	7678 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 12796	\$ 12796
	Distance wage	\$ 20432	\$ 0
	Hourly wage	\$ 0	\$ 28681
	Wage burden	\$ 8606	\$ 10743

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
41,834	29.45	52.3	Tractor variable costs	52,220	31.51	65.3
12,784	9.00	16.0	Driver	12,784	7.71	16.0
11,454	8.06	14.3	Fuel	13,745	8.29	17.2
657	0.46	0.8	Repairs	657	0.40	0.8
3,149	2.22	3.9	Cleaning	3,149	1.90	3.9
2,402	1.69	3.0	Transport	4,083	2.46	5.1
72,280	50.88	90.3	Tires	86,638	52.27	108.3
			Total tractor variable			
16,584	11.68	20.7	Tractor fixed costs	16,584	10.01	20.7
2,094	1.47	2.6	Depreciation	2,094	1.26	2.6
18,678	13.15	23.3	Licences	18,678	11.27	23.3
			Total tractor fixed			
90,958	64.03	113.6	Tractor total	105,316	63.54	131.6
			Trailer variable costs			
4,954	3.49	6.2	Repairs	5,945	3.59	7.4
1,379	0.97	1.7	Cleaning	1,379	0.83	1.7
1,303	0.92	1.6	Transport	1,303	0.79	1.6
3,021	2.13	3.8	Tires	4,985	3.01	6.2
10,657	7.51	13.3	Total trailer variable	13,612	8.22	16.9
			Trailer fixed costs			
4,410	3.10	5.5	Depreciation	4,410	2.66	5.5
40	0.03	0.1	Licences	40	0.02	0.1
4,450	3.13	5.6	Total trailer fixed	4,450	2.68	5.6
15,107	10.64	18.9	Trailer total	18,062	10.90	22.5
106,065	74.67	132.5	Total vehicle costs	123,378	74.44	154.1
4,359	3.07	5.4	Insurance costs	5,070	3.06	6.3
20,341	14.32	25.4	Admin. and interest	23,662	14.28	29.6
			Pickup and delivery			
14,530	10.23	18.2	Profit	16,901	10.20	21.1
145,295	102.29	181.5	Total operating cost	169,011	101.98	211.1

* Imperial Equivalent Summary *

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	117,946 lbs.
	Average payload --	67,703 lbs.
	Estimated annual quantity --	8,463 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

292.1 Total Operating Cost 339.7

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		53500 kg.	53500 kg.
Average Payload		30710 kg.	30710 kg.
Estimated Annual Quantity		15355 tonnes	15355 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.
B. Driver Costs			
Load - unload time cost		\$ 25592	\$ 25592
Distance wage		\$ 40864	\$ 0
Hourly wage		\$ 0	\$ 57362
Wage burden		\$ 17212	\$ 21485

C. Total Operating Costs

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
83,668	29.45	52.3	Driver	104,439	31.51
25,568	9.00	16.0	Fuel	25,568	7.71
22,908	8.06	14.3	Repairs	27,490	8.29
1,314	0.46	0.8	Cleaning	1,314	0.40
3,149	1.11	2.0	Transport	3,149	0.95
4,803	1.69	3.0	Tires	8,165	2.46
141,410	49.77	88.4	Total tractor variable	170,125	51.32
Tractor fixed costs					
16,584	5.84	10.4	Depreciation	16,584	5.00
2,094	0.74	1.3	Licences	2,094	0.63
18,678	6.58	11.7	Total tractor fixed	18,678	5.63
160,088	56.35	100.1	Tractor total	188,803	56.95
Trailer variable costs					
9,908	3.49	6.2	Repairs	11,890	3.59
2,759	0.97	1.7	Cleaning	2,759	0.83
1,303	0.46	0.8	Transport	1,303	0.39
6,043	2.13	3.0	Tires	9,970	3.01
20,013	7.05	12.5	Total trailer variable	25,922	7.82
Trailer fixed costs					
4,410	1.55	2.8	Depreciation	4,410	1.33
40	0.01		Licences	40	0.01
4,450	1.56	2.8	Total trailer fixed	4,450	1.34
24,463	8.61	15.3	Trailer total	30,372	9.16
184,551	64.96	115.4	Total vehicle costs	219,175	66.11
7,584	2.67	4.7	Insurance costs	9,007	2.72
35,393	12.46	22.1	Admin. and interest	42,034	12.68
25,281	8.90	15.8	Pickup and delivery		
252,809	88.99	158.0	Profit	30,024	9.06
			Total operating cost	300,240	90.57

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	117,946 lbs.
Average payload --	67,703 lbs.
Estimated annual quantity --	16,926 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

254.3

Total Operating Cost 302.1

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Dry Freight

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	53500 kg.	53500 kg.
	Average Payload	30710 kg.	30710 kg.
	Estimated Annual Quantity	23033 tonnes	23033 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 38388	\$ 38388
	Distance wage	\$ 61296	\$ 0
	Hourly wage	\$ 0	\$ 86044
	Wage burden	\$ 25818	\$ 32228

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
125,502	29.45	52.3	Tractor variable costs			
38,352	9.00	16.0	Driver	156,660	31.51	65.3
34,363	8.06	14.3	Fuel	38,352	7.71	16.0
1,971	0.46	0.8	Repairs	41,235	8.29	17.2
3,149	0.74	1.3	Cleaning	1,971	0.40	0.8
7,205	1.69	3.0	Transport	3,149	0.63	1.3
210,542	49.40	87.7	Tires	12,248	2.46	5.1
			Total tractor variable	253,615	51.00	105.7
16,584	3.89	6.9	Tractor fixed costs			
2,094	0.49	0.9	Depreciation	16,584	3.34	6.9
18,678	4.38	7.8	Licences	2,094	0.42	0.9
			Total tractor fixed	18,678	3.76	7.8
229,220	53.78	95.5	Tractor total	272,293	54.76	113.5
14,862	3.49	6.2	Trailer variable costs			
4,138	0.97	1.7	Repairs	17,835	3.59	7.4
1,303	0.31	0.5	Cleaning	4,138	0.83	1.7
9,064	2.13	3.8	Transport	1,303	0.26	0.5
29,367	6.90	12.2	Tires	14,955	3.01	6.2
			Total trailer variable	38,231	7.69	15.8
4,410	1.03	1.8	Trailer fixed costs			
40	0.01		Depreciation	4,410	0.89	1.8
4,450	1.04	1.8	Licences	40	0.01	
			Total trailer fixed	4,450	0.90	1.8
33,817	7.94	14.0	Trailer total	42,681	8.59	17.6
263,037	61.72	109.5	Total vehicle costs	314,974	63.35	131.1
10,810	2.54	4.5	Insurance costs	12,944	2.60	5.4
50,445	11.84	21.0	Admin. and interest	60,406	12.15	25.2
36,032	8.46	15.0	Pickup and delivery	43,147	8.68	18.0
360,324	84.56	150.0	Profit	431,471	86.78	179.7
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	149,136 mi.
	Gross vehicle weight --	117,946 lbs.
	Average payload --	67,703 lbs.
	Estimated annual quantity --	25,389 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

241.4 Total Operating Cost 289.2

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	53500 kg.	53500 kg.
Average Payload	30710 kg.	30710 kg.
Estimated Annual Quantity	7678 tonnes	7678 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 12037	\$ 12037
Distance wage	\$ 18080	\$ 0
Hourly wage	\$ 0	\$ 26979
Wage burden	\$ 7439	\$ 9637

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
37,556	26.44	46.9	Tractor variable costs			
14,516	10.22	18.1	Driver	48,653	29.36	60.8
9,337	6.57	11.7	Fuel	14,516	8.76	18.1
522	0.37	0.7	Repairs	11,205	6.76	14.0
2,497	1.76	3.1	Cleaning	522	0.32	0.7
2,306	1.62	2.9	Transport	2,497	1.51	3.1
66,734	46.98	83.4	Tires	3,920	2.37	4.9
			Total tractor variable	81,313	49.08	101.6
17,745	12.49	22.2	Tractor fixed costs			
3,174	2.23	4.0	Depreciation	17,745	10.71	22.2
20,919	14.72	26.2	Licences	3,174	1.92	4.0
			Total tractor fixed	20,919	12.63	26.2
87,653	61.70	109.6	Tractor total	102,232	61.71	127.8
5,548	3.91	6.9	Trailer variable costs			
970	0.68	1.2	Repairs	6,658	4.02	8.3
1,520	1.07	1.9	Cleaning	970	0.59	1.2
2,997	2.11	3.7	Transport	1,520	0.92	1.9
11,035	7.77	13.7	Tires	4,946	2.98	6.2
			Total trailer variable	14,094	8.51	17.6
4,719	3.32	5.9	Trailer fixed costs			
64	0.05	0.1	Depreciation	4,719	2.85	5.9
4,783	3.37	6.0	Licences	64	0.04	0.1
			Total trailer fixed	4,783	2.89	6.0
15,818	11.14	19.7	Trailer total	18,877	11.40	23.6
103,471	72.84	129.3	Total vehicle costs	121,109	73.11	151.4
4,252	2.99	5.3	Insurance costs	4,977	3.00	6.2
19,844	13.97	24.8	Admin. and interest	23,226	14.02	29.0
14,174	9.98	17.7	Pickup and delivery			
141,741	99.78	177.1	Profit	16,590	10.01	20.7
			Total operating cost	165,902	100.14	207.3

* Imperial Equivalent Summary *

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	117,946 lbs.
Average payload --	67,703 lbs.
Estimated annual quantity --	8,463 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

285.0 Total Operating Cost 333.6

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	53500 kg.	53500 kg.
	Average Payload	30710 kg.	30710 kg.
	Estimated Annual Quantity	15355 tonnes	15355 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2841 hrs.	3314 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 24073	\$ 24073
	Distance wage	\$ 36160	\$ 0
	Hourly wage	\$ 0	\$ 53959
	Wage burden	\$ 14878	\$ 19274

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
75,111	26.44	46.9	Driver	97,306	29.36	60.8
29,031	10.22	18.1	Fuel	29,031	8.76	18.1
18,674	6.57	11.7	Repairs	22,409	6.76	14.0
1,045	0.37	0.7	Cleaning	1,045	0.32	0.7
2,497	0.88	1.6	Transport	2,497	0.75	1.6
4,611	1.62	2.9	Tires	7,839	2.37	4.9
130,969	46.10	81.9	Total tractor variable	160,127	48.32	100.1
			Tractor fixed costs			
17,745	6.25	11.1	Depreciation	17,745	5.35	11.1
3,174	1.12	2.0	Licences	3,174	0.96	2.0
20,919	7.37	13.1	Total tractor fixed	20,919	6.31	13.1
151,888	53.47	95.0	Tractor total	181,046	54.63	113.2
			Trailer variable costs			
11,096	3.91	6.9	Repairs	13,315	4.02	8.3
1,941	0.68	1.2	Cleaning	1,941	0.59	1.2
1,520	0.54	1.0	Transport	1,520	0.46	1.0
5,995	2.11	3.7	Tires	9,891	2.98	6.2
20,552	7.24	12.8	Total trailer variable	26,667	8.05	16.7
			Trailer fixed costs			
4,719	1.66	2.9	Depreciation	4,719	1.42	2.9
64	0.02		Licences	64	0.02	
4,783	1.68	2.9	Total trailer fixed	4,783	1.44	2.9
25,335	8.92	15.7	Trailer total	31,450	9.49	19.6
177,223	62.39	110.7	Total vehicle costs	212,496	64.12	132.8
7,283	2.56	4.6	Insurance costs	8,733	2.64	5.5
33,988	11.96	21.2	Admin. and interest	40,753	12.30	25.5
			Pickup and delivery			
24,277	8.55	15.2	Profit	29,109	8.78	18.2
242,771	85.46	151.7	Total operating cost	291,091	87.84	182.0

 * Imperial Equivalent Summary *
 *
 * A. Annual distance travelled -- 99,424 mi. *
 * Gross vehicle weight -- 117,946 lbs. *
 * Average payload -- 67,703 lbs. *
 * Estimated annual quantity -- 16,926 tons *
 *
 * B. Total Operating Cost per mile (cents/mile) *
 *
 * Paved roads Gravel roads *
 *
 * 244.1 Total Operating Cost 292.9 *

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
53500 kg.	53500 kg.
30710 kg.	30710 kg.
23033 tonnes	23033 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 36110	\$ 36110
\$ 54240	\$ 0
\$ 0	\$ 80938
\$ 22316	\$ 28911

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
112,666	26.44	46.9	Tractor variable costs			
43,547	10.22	18.1	Driver	145,959	29.36	60.8
28,011	6.57	11.7	Fuel	43,547	8.76	18.1
1,567	0.37	0.7	Repairs	33,614	6.76	14.0
2,497	0.59	1.0	Cleaning	1,567	0.32	0.7
6,917	1.62	2.9	Transport	2,497	0.50	1.0
195,205	45.81	81.3	Tires	11,759	2.37	4.9
			Total tractor variable	238,943	48.07	99.5
17,745	4.16	7.4	Tractor fixed costs			
3,174	0.74	1.3	Depreciation	17,745	3.57	7.4
20,919	4.90	8.7	Licences	3,174	0.64	1.3
			Total tractor fixed	20,919	4.21	8.7
216,124	50.71	90.0	Tractor total	259,862	52.28	108.2
16,644	3.91	6.9	Trailer variable costs			
2,911	0.68	1.2	Repairs	19,973	4.02	8.3
1,520	0.36	0.6	Cleaning	2,911	0.59	1.2
8,992	2.11	3.7	Transport	1,520	0.31	0.6
30,067	7.06	12.4	Tires	14,837	2.98	6.2
			Total trailer variable	39,241	7.90	16.3
4,719	1.11	2.0	Trailer fixed costs			
64	0.02		Depreciation	4,719	0.95	2.0
4,783	1.13	2.0	Licences	64	0.01	
			Total trailer fixed	4,783	0.96	2.0
34,850	8.19	14.4	Trailer total	44,024	8.86	18.3
250,974	58.90	104.4	Total vehicle costs	303,886	61.14	126.5
10,314	2.42	4.3	Insurance costs	12,488	2.51	5.2
48,132	11.30	20.1	Admin. and interest	58,279	11.72	24.3
34,380	8.07	14.3	Pickup and delivery			
343,800	80.69	143.1	Profit	41,628	8.37	17.3
			Total operating cost	416,281	83.74	173.3

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
Gross vehicle weight -- 117,946 lbs.
Average payload -- 67,703 lbs.
Estimated annual quantity -- 25,389 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

230.3 Total Operating Cost 278.9

Configuration -- semi-trailer and pup 8 axles

Manitoba

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	56500 kg.	56500 kg.
	Average Payload	33710 kg.	33710 kg.
	Estimated Annual Quantity	8428 tonnes	8428 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 13147	\$ 13147
	Distance wage	\$ 18080	\$ 0
	Hourly wage	\$ 0	\$ 27431
	Wage burden	\$ 8119	\$ 10550

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
39,346	27.70	49.2	Tractor variable costs			
15,472	10.89	19.3	Driver	51,128	30.86	63.9
8,957	6.31	11.2	Fuel	15,472	9.34	19.3
932	0.66	1.2	Repairs	10,749	6.49	13.4
2,714	1.91	3.4	Cleaning	932	0.56	1.2
2,404	1.69	3.0	Transport	2,714	1.64	3.4
69,825	49.16	87.3	Tires	4,087	2.47	5.1
			Total tractor variable	85,082	51.36	106.3
			Tractor fixed costs			
17,792	12.53	22.2	Depreciation	17,792	10.74	22.2
3,528	2.48	4.4	Licences	3,528	2.13	4.4
21,320	15.01	26.6	Total tractor fixed	21,320	12.87	26.6
91,145	64.17	113.9	Tractor total	106,402	64.23	132.9
			Trailer variable costs			
4,940	3.48	6.2	Repairs	5,928	3.58	7.4
1,087	0.77	1.4	Cleaning	1,087	0.66	1.4
977	0.69	1.2	Transport	977	0.59	1.2
2,758	1.94	3.4	Tires	4,550	2.75	5.7
9,762	6.88	12.2	Total trailer variable	12,542	7.58	15.7
			Trailer fixed costs			
4,719	3.32	5.9	Depreciation	4,719	2.85	5.9
20	0.01		Licences	20	0.01	
4,739	3.33	5.9	Total trailer fixed	4,739	2.86	5.9
14,501	10.21	18.1	Trailer total	17,281	10.44	21.6
105,646	74.38	132.0	Total vehicle costs	123,683	74.67	154.5
4,342	3.06	5.4	Insurance costs	5,083	3.07	6.4
20,261	14.27	25.3	Admin. and interest	23,720	14.31	29.7
14,472	10.19	18.1	Pickup and delivery			
144,721	101.90	180.8	Profit	16,943	10.22	21.2
			Total operating cost	169,429	102.27	211.8

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	124,560 lbs.
	Average payload --	74,317 lbs.
	Estimated annual quantity --	9,290 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

291.0

Total Operating Cost 340.8

Configuration -- semi-trailer and pup 8 axles

Manitoba

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	33710 kg.	33710 kg.
Estimated Annual Quantity	16855 tonnes	16855 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 26294	\$ 26294
Distance wage	\$ 36160	\$ 0
Hourly wage	\$ 0	\$ 54861
Wage burden	\$ 16238	\$ 21100

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
78,692	27.70	49.2	Tractor variable costs			
38,943	18.89	19.3	Driver	102,255	38.85	63.9
17,914	6.31	11.2	Fuel	38,943	9.34	19.3
1,863	0.66	1.2	Repairs	21,497	6.49	13.4
2,714	0.96	1.7	Cleaning	1,863	0.56	1.2
4,808	1.69	3.0	Transport	2,714	0.82	1.7
136,934	48.21	85.6	Tires	8,174	2.47	5.1
			Total tractor variable	167,446	50.53	104.6
17,792	6.26	11.1	Tractor fixed costs			
3,528	1.24	2.2	Depreciation	17,792	5.37	11.1
21,320	7.50	13.3	Licences	3,528	1.06	2.2
			Total tractor fixed	21,320	6.43	13.3
158,254	55.71	98.9	Tractor total	188,766	56.96	117.9
2,880	3.48	6.2	Trailer variable costs			
2,174	0.77	1.4	Repairs	11,856	3.58	7.4
977	0.34	0.6	Cleaning	2,174	0.66	1.4
5,515	1.94	3.4	Transport	977	0.29	0.6
18,546	6.53	11.6	Tires	9,100	2.75	5.7
			Total trailer variable	24,107	7.28	15.1
4,719	1.66	2.9	Trailer fixed costs			
20	0.01		Depreciation	4,719	1.42	2.9
4,739	1.67	2.9	Licences	20	0.01	
			Total trailer fixed	4,739	1.43	2.9
23,285	8.20	14.5	Trailer total	28,846	8.71	18.0
181,539	63.91	113.4	Total vehicle costs	217,612	65.67	135.9
7,461	2.63	4.7	Insurance costs	8,943	2.70	5.6
34,816	12.26	21.8	Admin. and interest	41,734	12.59	26.1
24,868	8.75	15.5	Pickup and delivery	29,810	8.99	18.6
248,684	87.55	155.4	Profit	298,099	89.95	186.2
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	74,317 lbs.
Estimated annual quantity --	18,579 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

250.1

Total Operating Cost 299.7

Configuration -- semi-trailer and pup @ axles

Manitoba

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	33710 kg.	33710 kg.
Estimated Annual Quantity	25283 tonnes	25283 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 39441	\$ 39441
Distance wage	\$ 54240	\$ 0
Hourly wage	\$ 0	\$ 82292
Wage burden	\$ 24357	\$ 31650

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Cost per Running Hour \$	Cost per km.
110,838	27.70	49.2	Tractor variable costs		
46,415	10.89	19.3	Driver	153,383	30.85
26,871	6.31	11.2	Fuel	46,415	9.34
2,795	0.66	1.2	Repairs	32,246	6.49
2,714	0.64	1.1	Cleaning	2,795	0.56
7,212	1.69	3.0	Transport	2,714	0.55
204,045	47.89	85.0	Tires	12,260	2.47
			Total tractor variable	249,013	50.26
			Tractor fixed costs		
17,792	4.18	7.4	Depreciation	17,792	3.58
3,528	0.83	1.5	Licences	3,528	0.71
21,320	5.01	8.9	Total tractor fixed	21,320	4.29
225,365	52.90	93.9	Tractor total	271,133	54.55
			Trailer variable costs		
14,820	3.48	6.2	Repairs	17,784	3.58
3,260	0.77	1.4	Cleaning	3,260	0.66
977	0.23	0.4	Transport	977	0.20
8,273	1.94	3.4	Tires	13,650	2.75
27,330	6.42	11.4	Total trailer variable	35,671	7.19
			Trailer fixed costs		
4,719	1.11	2.0	Depreciation	4,719	0.95
20			Licences	20	
4,739	1.11	2.0	Total trailer fixed	4,739	0.95
32,069	7.53	13.4	Trailer total	40,410	8.14
257,434	60.43	107.3	Total vehicle costs	311,543	62.69
10,579	2.48	4.4	Insurance costs	12,803	2.58
49,371	11.59	20.6	Admin. and interest	59,748	12.02
35,265	8.28	14.7	Pickup and delivery		
352,649	82.70	147.0	Profit	42,677	8.59
			Total operating cost	426,771	85.88

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	74,317 lbs.
Estimated annual quantity --	27,869 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

236.6 Total Operating Cost 206.1

Configuration -- semi-trailer and pup 7 axles

Ontario

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	31750 kg.	31750 kg.
Estimated Annual Quantity	7938 tonnes	7938 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 12435	\$ 12435
Distance wage	\$ 15768	\$ 0
Hourly wage	\$ 0	\$ 27164
Wage burden	\$ 7333	\$ 10296

C. Total Operating Costs

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
35,536	25.02	44.4	Tractor variable costs		
16,424	11.56	20.5	Driver	49,895	30.11
11,480	8.03	14.3	Fuel	16,424	9.91
358	0.25	0.4	Repairs	13,680	8.26
1,954	1.38	2.4	Cleaning	358	0.22
2,545	1.79	3.2	Transport	1,954	1.18
68,217	48.03	85.2	Tires	4,327	2.61
			Total tractor variable	86,638	52.29
18,035	12.70	22.5	Tractor fixed costs		
2,722	1.92	3.4	Depreciation	18,035	10.88
20,757	14.62	25.9	Licences	2,722	1.64
			Total tractor fixed	20,757	12.52
88,974	62.65	111.1	Tractor total	107,395	64.81
5,619	3.96	7.0	Trailer variable costs		
1,576	1.11	2.0	Repairs	6,742	4.07
1,629	1.15	2.0	Cleaning	1,576	0.95
2,750	1.94	3.4	Transport	1,629	0.98
11,582	8.16	14.4	Tires	4,550	2.75
			Total trailer variable	14,497	8.75
4,763	3.35	6.0	Trailer fixed costs		
4,763	3.35	6.0	Depreciation	4,763	2.87
16,345	11.51	20.4	Licences		
105,319	74.16	131.5	Total trailer fixed	4,763	2.87
4,320	3.05	5.4	Trailer total	19,260	11.62
20,190	14.22	25.2	Total vehicle costs	126,655	76.43
14,427	10.16	18.0	Insurance costs	5,205	3.14
144,272	101.59	180.1	Admin. and interest	24,290	14.66
			Pickup and delivery		
			Profit	17,350	10.47
			Total operating cost	173,500	104.70

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	139,992 lbs.
Average payload --	69,996 lbs.
Estimated annual quantity --	8,750 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

289.8

Total Operating Cost 348.9

Ontario

Annual distance -- 160000 km.

B.	Driver Costs		
	Load - unload time cost	\$ 24871	\$ 24871
	Distance wage	\$ 31536	\$ 0
	Hourly wage	\$ 0	\$ 54328
	Wage burden	\$ 14666	\$ 20592

Paved Roads		Gravel Roads	
1	100	1	100
2	100	1	100
3	100	1	100
4	100	1	100
5	100	1	100
6	100	1	100
7	100	1	100
8	100	1	100
9	100	1	100
10	100	1	100
11	100	1	100
12	100	1	100
13	100	1	100
14	100	1	100
15	100	1	100
16	100	1	100
17	100	1	100
18	100	1	100
19	100	1	100
20	100	1	100
21	100	1	100
22	100	1	100
23	100	1	100
24	100	1	100
25	100	1	100
26	100	1	100
27	100	1	100
28	100	1	100
29	100	1	100
30	100	1	100
31	100	1	100
32	100	1	100
33	100	1	100
34	100	1	100
35	100	1	100
36	100	1	100
37	100	1	100
38	100	1	100
39	100	1	100
40	100	1	100
41	100	1	100
42	100	1	100
43	100	1	100
44	100	1	100
45	100	1	100
46	100	1	100
47	100	1	100
48	100	1	100
49	100	1	100
50	100	1	100
51	100	1	100
52	100	1	100
53	100	1	100
54	100	1	100
55	100	1	100
56	100	1	100
57	100	1	100
58	100	1	100
59	100	1	100
60	100	1	100
61	100	1	100
62	100	1	100
63	100	1	100
64	100	1	100
65	100	1	100
66	100	1	100
67	100	1	100
68	100	1	100
69	100	1	100
70	100	1	100
71	100	1	100
72	100	1	100
73	100	1	100
74	100	1	100
75	100	1	100
76	100	1	100
77	100	1	100
78	100	1	100
79	100	1	100
80	100	1	100
81	100	1	100
82	100	1	100
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85	100	1	100
86	100	1	100
87	100	1	100
88	100	1	100
89	100	1	100
90	100	1	100
91	100	1	100
92	100	1	100
93	100	1	100
94	100	1	100
95	100	1	100
96	100	1	100
97	100	1	100
98	100	1	100
99	100	1	100
100	100	1	100

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
71,073	25.02	44.4	Tractor variable costs			
32,849	11.56	20.5	Driver	99,791	30.11	62.4
22,800	8.03	14.3	Fuel	32,849	9.91	20.5
717	0.25	0.4	Repairs	27,360	8.26	17.1
1,954	0.69	1.2	Cleaning	717	0.22	0.4
5,091	1.79	3.2	Transport	1,954	0.59	1.2
134,484	47.34	84.0	Tires	8,654	2.61	5.4
			Total tractor variable	171,325	51.70	107.0
			Tractor fixed costs			
18,035	6.35	11.3	Depreciation	18,035	5.44	11.3
2,722	0.96	1.7	Licences	2,722	0.82	1.7
20,757	7.31	13.0	Total tractor fixed	20,757	6.26	13.0
155,241	54.65	97.0	Tractor total	192,082	57.96	120.0
			Trailer variable costs			
11,237	3.96	7.0	Repairs	13,485	4.07	8.4
3,153	1.11	2.0	Cleaning	3,153	0.95	2.0
1,629	0.57	1.0	Transport	1,629	0.49	1.0
5,515	1.94	3.4	Tires	9,100	2.75	5.7
21,534	7.58	13.4	Total trailer variable	27,367	8.26	17.1
			Trailer fixed costs			
4,763	1.68	3.0	Depreciation	4,763	1.44	3.0
4,763	1.68	3.0	Licences	4,763	1.44	3.0
26,297	9.26	16.4	Total trailer fixed	4,763	1.44	3.0
181,538	63.91	113.4	Trailer total	32,130	9.70	20.1
			Total vehicle costs	224,212	67.66	140.1
7,460	2.63	4.7	Insurance costs	9,214	2.78	5.8
34,815	12.26	21.8	Admin. and interest	42,999	12.97	26.9
24,868	8.75	15.5	Pickup and delivery	30,714	9.27	19.2
248,681	87.55	155.4	Profit	307,139	92.68	192.2
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled	--	99,424	mi.
	Gross vehicle weight	--	139,992	lbs.
	Average payload	--	69,996	lbs.
	Estimated annual quantity	--	17,499	tons

B. Total Operating Cost per mile (cents/mile)

[illegible]

250.1	Total Operating Cost	309.0
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Configuration -- semi-trailer and pup 7 axles

Ontario

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
63500 kg.	63500 kg.
31750 kg.	31750 kg.
23813 tonnes	23813 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 37306	\$ 37306
\$ 47304	\$ 0
\$ 0	\$ 81492
\$ 21999	\$ 30888

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
106,609	25.02	44.4	Tractor variable costs			
49,273	11.56	20.5	Driver	149,686	30.11	62.4
34,200	8.03	14.3	Fuel	49,273	9.91	20.5
1,075	0.25	0.4	Repairs	41,040	8.26	17.1
1,954	0.46	0.8	Cleaning	1,075	0.22	0.4
7,636	1.79	3.2	Transport	1,954	0.39	0.8
200,747	47.11	83.6	Tires	12,982	2.61	5.4
			Total tractor variable	256,010	51.50	106.6
18,035	4.23	7.5	Tractor fixed costs			
2,722	0.64	1.1	Depreciation	18,035	3.63	7.5
20,757	4.87	8.6	Licences	2,722	0.55	1.1
			Total tractor fixed	20,757	4.18	8.6
221,504	51.98	92.2	Tractor total	276,767	55.68	115.2
16,856	3.96	7.0	Trailer variable costs			
4,729	1.11	2.0	Repairs	20,227	4.07	8.4
1,629	0.38	0.7	Cleaning	4,729	0.95	2.0
8,273	1.94	3.4	Transport	1,629	0.33	0.7
31,487	7.39	13.1	Tires	13,650	2.75	5.7
			Total trailer variable	40,235	8.10	16.8
4,763	1.12	2.0	Trailer fixed costs			
4,763	1.12	2.0	Depreciation	4,763	0.96	2.0
			Licences			
36,250	8.51	15.1	Total trailer fixed	4,763	0.96	2.0
257,754	60.49	107.3	Trailer total	44,998	9.06	18.8
10,593	2.49	4.4	Total vehicle costs	321,765	64.74	134.0
49,432	11.60	20.6	Insurance costs	13,223	2.66	5.5
35,309	8.29	14.7	Admin. and interest	61,708	12.41	25.7
353,088	82.87	147.0	Pickup and delivery	44,077	8.87	18.4
			Profit			
			Total operating cost	440,773	88.68	183.6

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
Gross vehicle weight -- 139,992 lbs.
Average payload -- 69,996 lbs.
Estimated annual quantity -- 26,249 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

236.6

Total Operating Cost

295.5

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	57500 kg.	57500 kg.
Average Payload	29930 kg.	29930 kg.
Estimated Annual Quantity	7483 tonnes	7483 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 10376	\$ 10376
Distance wage	\$ 13992	\$ 0
Hourly wage	\$ 0	\$ 23728
Wage burden	\$ 7067	\$ 9890

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
31,435	22.13	39.3	Tractor variable costs	43,994	26.55	55.0
19,227	13.54	24.0	Driver	19,227	11.60	24.0
11,563	8.14	14.5	Fuel	13,875	8.37	17.3
299	0.21	0.4	Repairs	299	0.18	0.4
2,389	1.68	3.0	Cleaning	2,389	1.44	3.0
2,687	1.89	3.4	Transport	4,568	2.76	5.7
67,600	47.59	84.6	Tires	84,352	50.90	105.4
			Total tractor variable			
18,198	12.81	22.7	Tractor fixed costs	18,198	10.98	22.7
2,756	1.94	3.4	Depreciation	2,756	1.66	3.4
20,954	14.75	26.1	Licences	20,954	12.64	26.1
			Total tractor fixed			
88,554	62.34	110.7	Tractor total	105,306	63.54	131.5
5,293	3.73	6.6	Trailer variable costs	6,351	3.83	7.9
1,505	1.06	1.9	Repairs	1,505	0.91	1.9
1,737	1.22	2.2	Cleaning	1,737	1.05	2.2
2,899	2.04	3.6	Transport	4,783	2.89	6.0
11,434	8.05	14.3	Tires	14,376	8.68	18.0
			Total trailer variable			
4,807	3.38	6.0	Trailer fixed costs	4,807	2.90	6.0
114	0.08	0.1	Depreciation	114	0.07	0.1
4,921	3.46	6.1	Licences	4,921	2.97	6.1
			Total trailer fixed			
16,355	11.51	20.4	Trailer total	19,297	11.65	24.1
104,909	73.85	131.1	Total vehicle costs	124,603	75.19	155.6
4,311	3.04	5.4	Insurance costs	5,121	3.09	6.4
20,119	14.17	25.1	Admin. and interest	23,096	14.42	29.9
14,371	10.12	18.0	Pickup and delivery	17,069	10.30	21.3
143,710	101.18	179.6	Profit	170,689	103.00	213.2
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	126,765 lbs.
Average payload --	65,984 lbs.
Estimated annual quantity --	8,249 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

289.0

Total Operating Cost 343.1

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization		
Gross Vehicle Weight	Paved Road 57500 kg.	Gravel Road 57500 kg.
Average Payload	29930 kg.	29930 kg.
Estimated Annual Quantity	14965 tonnes	14965 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 20751	\$ 20751
Distance wage	\$ 27984	\$ 0
Hourly wage	\$ 0	\$ 47455
Wage burden	\$ 14133	\$ 19780

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
62,868	22.13	39.3	Tractor variable costs			
38,453	13.54	24.0	Driver	87,986	26.55	55.0
23,126	8.14	14.5	Fuel	38,453	11.60	24.0
597	0.21	0.4	Repairs	27,751	8.37	17.3
2,389	0.84	1.5	Cleaning	597	0.18	0.4
5,374	1.89	3.4	Transport	2,389	0.72	1.5
132,807	46.75	83.1	Tires	9,135	2.76	5.7
			Total tractor variable	166,311	50.18	103.9
18,198	6.41	11.4	Tractor fixed costs			
2,756	0.97	1.7	Depreciation	18,198	5.49	11.4
20,954	7.38	13.1	Licences	2,756	0.83	1.7
			Total tractor fixed	20,954	6.32	13.1
153,761	54.13	96.2	Tractor total	187,265	56.50	117.0
10,586	3.73	6.6	Trailer variable costs			
3,010	1.06	1.9	Repairs	12,703	3.83	7.9
1,737	0.61	1.1	Cleaning	3,010	0.91	1.9
5,798	2.04	3.6	Transport	1,737	0.52	1.1
21,131	7.44	13.2	Tires	9,567	2.89	6.0
			Total trailer variable	27,017	8.15	16.9
4,807	1.69	3.0	Trailer fixed costs			
114	0.04	0.1	Depreciation	4,807	1.45	3.0
4,921	1.73	3.1	Licences	114	0.03	0.1
			Total trailer fixed	4,921	1.48	3.1
26,052	9.17	16.3	Trailer total	31,938	9.63	20.0
179,813	63.30	112.5	Total vehicle costs	219,203	66.13	137.0
7,390	2.60	4.6	Insurance costs	9,008	2.72	5.6
34,484	12.14	21.6	Admin. and interest	42,039	12.69	26.3
24,632	8.67	15.4	Pickup and delivery			
246,319	86.71	154.1	Profit	30,028	9.06	18.8
			Total operating cost	300,278	90.60	187.7

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	126,765 lbs.
Average payload --	65,984 lbs.
Estimated annual quantity --	16,496 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

248.0

Total Operating Cost 302.1

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Dry Freight

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	57500 kg.	57500 kg.
	Average Payload	29930 kg.	29930 kg.
	Estimated Annual Quantity	22448 tonnes	22448 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 31127	\$ 31127
	Distance wage	\$ 41976	\$ 0
	Hourly wage	\$ 0	\$ 71183
	Wage burden	\$ 21200	\$ 29670

C. Total Operating Costs

Paved Roads Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
94,303	22.13	39.3	Tractor variable costs	131,980	26.55	55.0
57,680	13.54	24.0	Driver	57,680	11.60	24.0
34,688	8.14	14.5	Fuel	41,626	8.37	17.3
896	0.21	0.4	Repairs	896	0.18	0.4
2,389	0.56	1.0	Cleaning	2,389	0.48	1.0
8,061	1.89	3.4	Transport	13,703	2.76	5.7
198,017	46.47	82.6	Tires	248,274	49.94	103.4
			Total tractor variable			
18,198	4.27	7.6	Tractor fixed costs	18,198	3.66	7.6
2,756	0.65	1.1	Depreciation	2,756	0.55	1.1
20,954	4.92	8.7	Licences	20,954	4.21	8.7
			Total tractor fixed			
218,971	51.39	91.3	Tractor total	269,228	54.15	112.1
			Trailer variable costs			
15,879	3.73	6.6	Repairs	19,054	3.83	7.9
4,514	1.06	1.9	Cleaning	4,514	0.91	1.9
1,737	0.41	0.7	Transport	1,737	0.35	0.7
8,697	2.04	3.6	Tires	14,350	2.89	6.0
30,827	7.24	12.8	Total trailer variable	39,655	7.98	16.5
			Trailer fixed costs			
4,807	1.13	2.0	Depreciation	4,807	0.97	2.0
114	0.03		Licences	114	0.02	
4,921	1.16	2.0	Total trailer fixed	4,921	0.99	2.0
35,748	8.40	14.8	Trailer total	44,576	8.97	18.5
254,719	59.79	106.1	Total vehicle costs	313,804	63.12	130.6
10,468	2.46	4.4	Insurance costs	12,896	2.59	5.4
48,850	11.46	20.4	Admin. and interest	60,182	12.11	25.1
34,893	8.19	14.5	Pickup and delivery	42,987	8.65	17.9
348,930	81.90	145.4	Profit	429,869	86.47	179.0
			Total operating cost			

* Imperial Equivalent Summary *

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 126,765 lbs.
 Average payload -- 65,984 lbs.
 Estimated annual quantity -- 24,744 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

234.0

Total Operating Cost 288.1

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
56500 kg.	56500 kg.
33210 kg.	33210 kg.
8303 tonnes	8303 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 10101	\$ 10101
\$ 12608	\$ 0
\$ 0	\$ 21317
\$ 4837	\$ 6692

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,546	19.39	34.4	Tractor variable costs			
14,999	10.56	18.7	Driver	38,110	23.00	47.6
11,107	7.82	13.9	Fuel	14,999	9.05	18.7
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
58,349	41.08	72.9	Tires	3,888	2.35	4.9
			Total tractor variable	72,735	43.89	90.9
18,525	13.04	23.2	Tractor fixed costs			
1,878	1.32	2.3	Depreciation	18,525	11.18	23.2
20,403	14.36	25.5	Licences	1,878	1.13	2.3
			Total tractor fixed	20,403	12.31	25.5
78,752	55.44	98.4	Tractor total	93,138	56.20	116.4
5,394	3.80	6.7	Trailer variable costs			
657	0.46	0.8	Repairs	6,473	3.91	8.1
1,737	1.22	2.2	Cleaning	657	0.40	0.8
3,025	2.13	3.8	Transport	1,737	1.05	2.2
10,813	7.61	13.5	Tires	4,991	3.01	6.2
			Total trailer variable	13,858	8.37	17.3
4,895	3.45	6.1	Trailer fixed costs			
20	0.01		Depreciation	4,895	2.95	6.1
4,915	3.46	6.1	Licences	20	0.01	
			Total trailer fixed	4,915	2.96	6.1
15,728	11.07	19.6	Trailer total	18,773	11.33	23.4
94,480	66.51	118.0	Total vehicle costs	111,911	67.53	139.8
3,883	2.73	4.9	Insurance costs	4,599	2.78	5.7
18,120	12.76	22.7	Admin. and interest	21,463	12.95	26.8
12,943	9.11	16.2	Pickup and delivery			
129,426	91.11	161.8	Profit	15,330	9.25	19.2
			Total operating cost	153,303	92.51	191.5

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
Gross vehicle weight -- 124,560 lbs.
Average payload -- 73,215 lbs.
Estimated annual quantity -- 9,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

260.4

Total Operating Cost 308.2

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	33210 kg.	33210 kg.
Estimated Annual Quantity	16605 tonnes	16605 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 20203	\$ 20203
Distance wage	\$ 25216	\$ 0
Hourly wage	\$ 0	\$ 42635
Wage burden	\$ 9674	\$ 13384

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
55,093	19.39	34.4	Driver	76,222	23.00	47.6
29,998	10.56	18.7	Fuel	29,998	9.05	18.7
22,214	7.82	13.9	Repairs	26,656	8.04	16.7
478	0.17	0.3	Cleaning	478	0.14	0.3
2,171	0.76	1.4	Transport	2,171	0.66	1.4
4,574	1.61	2.9	Tires	7,776	2.35	4.9
114,528	40.31	71.6	Total tractor variable	143,301	43.24	89.6
			Tractor fixed costs			
18,525	6.52	11.6	Depreciation	18,525	5.59	11.6
1,878	0.66	1.2	Licences	1,878	0.57	1.2
20,403	7.18	12.8	Total tractor fixed	20,403	6.16	12.8
134,931	47.49	84.4	Tractor total	163,704	49.40	102.4
			Trailer variable costs			
10,788	3.80	6.7	Repairs	12,945	3.91	8.1
1,314	0.46	0.8	Cleaning	1,314	0.40	0.8
1,737	0.61	1.1	Transport	1,737	0.52	1.1
6,050	2.13	3.8	Tires	9,983	3.01	6.2
19,889	7.00	12.4	Total trailer variable	25,979	7.84	16.2
			Trailer fixed costs			
4,895	1.72	3.1	Depreciation	4,895	1.48	3.1
20	0.01		Licences	20	0.01	
4,915	1.73	3.1	Total trailer fixed	4,915	1.49	3.1
24,804	8.73	15.5	Trailer total	30,894	9.33	19.3
159,735	56.22	99.9	Total vehicle costs	194,598	58.73	121.7
6,564	2.31	4.1	Insurance costs	7,997	2.41	5.0
30,634	10.78	19.1	Admin. and interest	37,320	11.26	23.3
21,881	7.70	13.7	Pickup and delivery	26,657	8.04	16.7
218,814	77.01	136.8	Profit			
			Total operating cost	266,572	80.44	166.7

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	18,304 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

220.2 Total Operating Cost 268.3

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		56500 kg.	56500 kg.
Average Payload		33210 kg.	33210 kg.
Estimated Annual Quantity		24908 tonnes	24908 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		4261 hrs.	4971 hrs.
B. Driver Costs			
Load - unload time cost		\$ 30304	\$ 30304
Distance wage		\$ 37824	\$ 0
Hourly wage		\$ 0	\$ 63952
Wage burden		\$ 14511	\$ 20077

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s			
Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
82,639	19.39	34.4	Tractor variable costs			
44,997	10.56	18.7	Driver	114,333	23.00	47.6
33,320	7.82	13.9	Fuel	44,997	9.05	18.7
717	0.17	0.3	Repairs	39,985	8.04	16.7
2,171	0.51	0.9	Cleaning	717	0.14	0.3
6,862	1.61	2.9	Transport	2,171	0.44	0.9
170,706	40.06	71.1	Tires	11,665	2.35	4.9
			Total tractor variable	213,868	43.02	89.1
18,525	4.35	7.7	Tractor fixed costs			
1,878	0.44	0.8	Depreciation	18,525	3.73	7.7
20,403	4.79	8.5	Licences	1,878	0.38	0.8
			Total tractor fixed	20,403	4.11	8.5
191,109	44.85	79.6	Tractor total	234,271	47.13	97.6
16,181	3.80	6.7	Trailer variable costs			
1,971	0.46	0.8	Repairs	19,418	3.91	8.1
1,737	0.41	0.7	Cleaning	1,971	0.40	0.8
9,075	2.13	3.8	Transport	1,737	0.35	0.7
28,964	6.80	12.0	Tires	14,974	3.01	6.2
			Total trailer variable	38,100	7.67	15.8
4,895	1.15	2.0	Trailer fixed costs			
20			Depreciation	4,895	0.98	2.0
4,915	1.15	2.0	Licences	20		
			Total trailer fixed	4,915	0.98	2.0
33,879	7.95	14.0	Trailer total	43,015	8.65	17.8
224,988	52.80	93.6	Total vehicle costs	277,286	55.78	115.4
9,246	2.17	3.9	Insurance costs	11,395	2.29	4.7
43,148	10.13	18.0	Admin. and interest	53,178	10.70	22.2
30,820	7.23	12.8	Pickup and delivery			
308,202	72.33	128.3	Profit	37,984	7.64	15.8
			Total operating cost	379,843	76.41	158.1

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	27,456 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

206.5 Total Operating Cost 254.4

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	50000 kg.	50000 kg.
Average Payload	33210 kg.	33210 kg.
Estimated Annual Quantity	8303 tonnes	8303 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 10101	\$ 10101
Distance wage	\$ 12608	\$ 0
Hourly wage	\$ 0	\$ 21317
Wage burden	\$ 4837	\$ 6692

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
27,546	19.39	34.4	Tractor variable costs			
15,173	10.68	19.0	Driver	38,110	23.00	47.6
11,107	7.82	13.9	Fuel	15,173	9.16	19.0
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
58,523	41.20	73.2	Tires	3,888	2.35	4.9
			Total tractor variable	72,909	44.00	91.2
			Tractor fixed costs			
18,362	12.93	23.0	Depreciation	18,362	11.08	23.0
1,600	1.13	2.0	Licences	1,600	0.97	2.0
19,962	14.06	25.0	Total tractor fixed	19,962	12.05	25.0
78,485	55.26	98.2	Tractor total	92,871	56.05	116.2
			Trailer variable costs			
5,394	3.80	6.7	Repairs	6,473	3.91	8.1
657	0.46	0.8	Cleaning	657	0.40	0.8
1,737	1.22	2.2	Transport	1,737	1.05	2.2
3,025	2.13	3.8	Tires	4,991	3.01	6.2
10,813	7.61	13.5	Total trailer variable	13,858	8.37	17.3
			Trailer fixed costs			
4,851	3.42	6.1	Depreciation	4,851	2.93	6.1
50	0.04	0.1	Licences	50	0.03	0.1
4,901	3.46	6.2	Total trailer fixed	4,901	2.96	6.2
15,714	11.07	19.7	Trailer total	18,759	11.33	23.5
94,199	66.33	117.9	Total vehicle costs	111,630	67.38	139.7
3,871	2.73	4.8	Insurance costs	4,588	2.77	5.7
18,065	12.72	22.6	Admin. and interest	21,408	12.92	26.8
12,904	9.09	16.1	Pickup and delivery			
129,039	90.87	161.4	Profit	15,292	9.23	19.1
			Total operating cost	152,918	92.30	191.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	110,230 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	9,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

259.7

Total Operating Cost 307.9

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		50000 kg.	50000 kg.
Average Payload		33210 kg.	33210 kg.
Estimated Annual Quantity		16605 tonnes	16605 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.
B. Driver Costs			
Load - unload time cost		\$ 20203	\$ 20203
Distance wage		\$ 25216	\$ 0
Hourly wage		\$ 0	\$ 42635
Wage burden		\$ 9674	\$ 13384

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
55,093	19.39	34.4	Tractor variable costs			
30,345	10.68	19.0	Driver	76,222	23.00	47.6
22,214	7.82	13.9	Fuel	30,345	9.16	19.0
478	0.17	0.3	Repairs	26,656	8.04	16.7
2,171	0.76	1.4	Cleaning	478	0.14	0.3
4,574	1.61	2.9	Transport	2,171	0.66	1.4
114,875	40.43	71.9	Tires	7,776	2.35	4.9
			Total tractor variable	143,648	43.35	89.9
18,362	6.46	11.5	Tractor fixed costs			
1,600	0.56	1.0	Depreciation	18,362	5.54	11.5
19,962	7.02	12.5	Licences	1,600	0.48	1.0
			Total tractor fixed	19,962	6.02	12.5
134,837	47.45	84.4	Tractor total	163,610	49.37	102.4
10,788	3.80	6.7	Trailer variable costs			
1,314	0.46	0.8	Repairs	12,945	3.91	8.1
1,737	0.61	1.1	Cleaning	1,314	0.40	0.8
6,050	2.13	3.8	Transport	1,737	0.52	1.1
19,889	7.00	12.4	Tires	9,983	3.01	6.2
			Total trailer variable	25,979	7.84	16.2
4,851	1.71	3.0	Trailer fixed costs			
50	0.02		Depreciation	4,851	1.46	3.0
4,901	1.73	3.0	Licences	50	0.02	
			Total trailer fixed	4,901	1.48	3.0
24,790	8.73	15.4	Trailer total	30,880	9.32	19.2
159,627	56.18	99.8	Total vehicle costs	194,490	58.69	121.6
6,560	2.31	4.1	Insurance costs	7,993	2.41	5.0
30,613	10.78	19.1	Admin. and interest	37,300	11.26	23.3
21,867	7.70	13.7	Pickup and delivery			
218,667	76.97	136.7	Profit	26,643	8.04	16.7
			Total operating cost	266,426	80.40	166.6

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	110,230 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	18,304 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

220.0 Total Operating Cost 268.1

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Gross Vehicle Weight	Paved Road	Gravel Road
	Average Payload	50000 kg.	50000 kg.
	Estimated Annual Quantity	33210 kg.	33210 kg.
	Trip Running Time	24908 tonnes	24908 tonnes
	Annual Running Hours	5.7 hrs.	6.6 hrs.
B. Driver Costs	Load - unload time cost	4261 hrs.	4971 hrs.
	Distance wage	\$ 30304	\$ 30304
	Hourly wage	\$ 37824	\$ 0
	Wage burden	\$ 0	\$ 63952
		\$ 14511	\$ 20077

C. Total Operating Costs

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
Tractor variable costs					
82,639	19.39	34.4	Driver	114,333	23.00
45,518	10.68	19.0	Fuel	45,518	9.16
33,320	7.82	13.9	Repairs	39,985	8.04
717	0.17	0.3	Cleaning	717	0.14
2,171	0.51	0.9	Transport	2,171	0.44
6,862	1.61	2.9	Tires	11,665	2.35
171,227	40.18	71.4	Total tractor variable	214,389	43.13
Tractor fixed costs					
18,362	4.31	7.7	Depreciation	18,362	3.69
1,600	0.38	0.7	Licences	1,600	0.32
19,962	4.69	8.4	Total tractor fixed	19,962	4.01
191,189	44.87	79.8	Tractor total	234,351	47.14
Trailer variable costs					
16,181	3.80	6.7	Repairs	19,410	3.91
1,971	0.46	0.8	Cleaning	1,971	0.40
1,737	0.41	0.7	Transport	1,737	0.35
9,075	2.13	3.8	Tires	14,974	3.01
28,964	6.80	12.0	Total trailer variable	38,100	7.67
Trailer fixed costs					
4,851	1.14	2.0	Depreciation	4,851	0.98
50	0.01		Licences	50	0.01
4,901	1.15	2.0	Total trailer fixed	4,901	0.99
33,865	7.95	14.0	Trailer total	43,001	8.66
225,054	52.82	93.8	Total vehicle costs	277,352	55.80
9,249	2.17	3.9	Insurance costs	11,398	2.29
43,161	10.13	18.0	Admin. and interest	53,190	10.70
30,829	7.24	12.8	Pickup and delivery	37,993	7.64
308,293	72.36	128.5	Profit		
			Total operating cost	379,933	76.43

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	110,230 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	27,456 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads Gravel roads

206.0 Total Operating Cost 254.8

Configuration -- semi-trailer and pup 8 axles

P.E.I.

Commodity -- Dry Freight

Annual distance -- 88000 km.

A. Vehicle Utilisation	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	33210 kg.	33210 kg.
Estimated Annual Quantity	8303 tonnes	8303 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 8303	\$ 8303
Distance wage	\$ 10600	\$ 0
Hourly wage	\$ 0	\$ 17521
Wage burden	\$ 4026	\$ 5500

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
22,929	16.14	28.7	Tractor variable costs			
14,995	10.56	18.7	Driver	31,324	18.90	39.2
11,107	7.82	13.9	Fuel	14,995	9.85	18.7
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
53,728	37.83	67.2	Tires	3,888	2.35	4.9
			Total tractor variable	65,945	39.79	82.5
			Tractor fixed costs			
18,457	12.99	23.1	Depreciation	18,457	11.14	23.1
2,840	1.44	2.6	Licences	2,840	1.23	2.6
20,497	14.43	25.7	Total tractor fixed	20,497	12.37	25.7
74,225	52.26	92.9	Tractor total	86,442	52.16	108.2
			Trailer variable costs			
5,394	3.80	6.7	Repairs	6,473	3.91	8.1
657	0.46	0.8	Cleaning	657	0.40	0.8
1,737	1.22	2.2	Transport	1,737	1.05	2.2
3,825	2.13	3.8	Tires	4,991	3.01	6.2
10,813	7.61	13.5	Total trailer variable	13,858	8.37	17.3
			Trailer fixed costs			
4,851	3.42	6.1	Depreciation	4,851	2.93	6.1
50	0.04	0.1	Licences	50	0.03	0.1
4,901	3.46	6.2	Total trailer fixed	4,901	2.96	6.2
15,714	11.07	19.7	Trailer total	18,759	11.33	23.5
89,939	63.33	112.6	Total vehicle costs	105,201	63.49	131.7
3,696	2.60	4.6	Insurance costs	4,323	2.61	5.4
17,249	12.14	21.6	Admin. and interest	20,176	12.18	25.2
12,320	8.67	15.4	Pickup and delivery			
123,204	86.74	154.2	Profit	14,411	8.70	18.0
			Total operating cost	144,111	86.98	180.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	137,780 lbs.
Average payload --	73,215 lbs.
Estimated annual quantity --	9,152 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

248.2 Total Operating Cost 290.2

P.E.I.

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	62500 kg.	62500 kg.
	Average Payload	33210 kg.	33210 kg.
	Estimated Annual Quantity	16605 tonnes	16605 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs			
Load - unload time cost	\$ 16605		\$ 16605
Distance wage	\$ 21200		\$ 0
Hourly wage	\$ 0		\$ 35042
Wage burden	\$ 8052		\$ 11000

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
45,857	16.14	28.7	Tractor variable costs			
29,991	10.56	18.7	Driver	62,648	18.90	39.2
22,214	7.82	13.9	Fuel	29,991	9.05	18.7
478	0.17	0.3	Repairs	26,656	8.04	16.7
2,171	0.76	1.4	Cleaning	478	0.14	0.3
4,574	1.61	2.9	Transport	2,171	0.66	1.4
105,285	37.06	65.9	Tires	7,776	2.35	4.9
			Total tractor variable	129,720	39.14	81.2
			Tractor fixed costs			
18,457	6.50	11.5	Depreciation	18,457	5.57	11.5
2,040	0.72	1.3	Licences	2,040	0.62	1.3
20,497	7.22	12.8	Total tractor fixed	20,497	6.19	12.8
125,782	44.28	78.7	Tractor total	150,217	45.33	94.0
			Trailer variable costs			
10,780	3.80	6.7	Repairs	12,045	3.91	8.1
1,314	0.46	0.8	Cleaning	1,314	0.40	0.8
1,737	0.61	1.1	Transport	1,737	0.52	1.1
6,050	2.13	3.8	Tires	9,983	3.01	6.2
19,889	7.00	12.4	Total trailer variable	25,979	7.84	16.2
			Trailer fixed costs			
4,851	1.71	3.0	Depreciation	4,851	1.46	3.0
50	0.02		Licences	50	0.02	
4,901	1.73	3.0	Total trailer fixed	4,901	1.48	3.0
24,790	8.73	15.4	Trailer total	30,880	9.32	19.2
150,572	53.01	94.1	Total vehicle costs	181,097	54.65	113.2
6,188	2.18	3.9	Insurance costs	7,442	2.25	4.7
28,877	10.17	18.0	Admin. and interest	34,731	10.48	21.7
20,626	7.26	12.9	Pickup and delivery	24,888	7.49	15.5
206,263	72.62	128.9	Profit	248,078	74.07	155.1
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled	--	99,424	mi.
	Gross vehicle weight	--	137,788	lbs.
	Average payload	--	73,215	lbs.
	Estimated annual quantity	--	18,384	tons

B. Total Operating Cost per mile (cents/mile)

[illegible]

207.4	Total Operating Cost	249.6
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Configuration -- semi-trailer and pup 8 axles

P.E.I.

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
62500 kg.	62500 kg.
33210 kg.	33210 kg.
24908 tonnes	24908 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 24908	\$ 24908
\$ 31800	\$ 0
\$ 0	\$ 52564
\$ 12079	\$ 16501

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
60,787	16.14	20.7	Tractor variable costs			
44,986	10.50	10.7	Driver	93,973	18.90	39.2
33,320	7.85	13.9	Fuel	44,986	9.05	18.7
717	0.17	0.3	Repairs	39,985	8.04	16.7
2,171	0.51	0.9	Cleaning	717	0.14	0.3
6,862	1.60	2.9	Transport	2,171	0.44	0.9
156,843	36.01	65.4	Tires	11,665	2.35	4.9
			Total tractor variable	193,497	38.92	80.7
10,457	4.33	7.7	Tractor fixed costs			
2,040	0.48	0.9	Depreciation	18,457	3.71	7.7
20,497	4.81	8.6	Licences	2,040	0.41	0.9
			Total tractor fixed	20,497	4.12	8.6
177,340	41.62	74.0	Tractor total	213,994	43.04	89.3
10,181	3.80	6.7	Trailer variable costs			
1,973	0.46	0.8	Repairs	19,418	3.91	8.1
737	0.41	0.7	Cleaning	1,973	0.40	0.8
9,075	2.13	3.8	Transport	1,737	0.35	0.7
20,964	0.80	12.0	Tires	14,974	3.01	6.2
			Total trailer variable	38,100	7.67	15.8
4,851	1.14	2.0	Trailer fixed costs			
50	0.01		Depreciation	4,851	0.98	2.0
4,901	1.15	2.0	Licences	50	0.01	
			Total trailer fixed	4,901	0.99	2.0
33,865	7.95	14.0	Trailer total	43,001	8.66	17.8
211,205	49.57	88.0	Total vehicle costs	256,995	51.70	107.1
8,600	3.04	3.6	Insurance costs	10,561	2.12	4.4
40,505	9.51	10.0	Admin. and interest	49,286	9.91	20.5
20,932	6.79	12.1	Pickup and delivery	35,205	7.08	14.7
289,322	67.91	120.0	Profit			
			Total operating cost	352,047	70.81	146.7

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 137,788 lbs.
 Average payload -- 73,215 lbs.
 Estimated annual quantity -- 27,456 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d R o a d s

G r a v e l r o a d s

194.1

Total Operating Cost 236.1

Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	62500 kg.	62500 kg.
	Average Payload	31560 kg.	31560 kg.
	Estimated Annual Quantity	7890 tonnes	7890 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 8416	\$ 8416
	Distance wage	\$ 11648	\$ 0
	Hourly wage	\$ 0	\$ 18469
	Wage burden	\$ 4274	\$ 5727

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
24,338	17.14	30.4	Driver	32,612	19.68	40.0
16,911	11.91	21.1	Fuel	16,911	10.21	21.1
10,569	7.44	13.2	Repairs	12,683	7.65	15.9
478	0.34	0.6	Cleaning	478	0.29	0.6
2,063	1.45	2.6	Transport	2,063	1.24	2.6
2,435	1.71	3.0	Tires	4,139	2.50	5.2
56,794	39.99	70.9	Total tractor variable	68,886	41.57	86.2
			Tractor fixed costs			
18,784	13.23	23.5	Depreciation	18,784	11.34	23.5
2,178	1.53	2.7	Licences	2,178	1.31	2.7
20,962	14.76	26.2	Total tractor fixed	20,962	12.65	26.2
77,756	54.75	97.1	Tractor total	89,848	54.22	112.4
			Trailer variable costs			
5,781	4.07	7.2	Repairs	6,938	4.19	8.7
597	0.42	0.7	Cleaning	597	0.36	0.7
1,954	1.38	2.4	Transport	1,954	1.18	2.4
3,025	2.13	3.8	Tires	4,991	3.01	6.2
11,357	8.00	14.1	Total trailer variable	14,480	8.74	18.0
			Trailer fixed costs			
4,939	3.48	6.2	Depreciation	4,939	2.98	6.2
50	0.04	0.1	Licences	50	0.03	0.1
4,989	3.52	6.3	Total trailer fixed	4,989	3.01	6.3
16,346	11.52	20.4	Trailer total	19,469	11.75	24.3
94,102	66.27	117.5	Total vehicle costs	109,317	65.97	136.7
3,867	2.72	4.8	Insurance costs	4,492	2.71	5.6
18,047	12.71	22.6	Admin. and interest	20,965	12.65	26.2
			Pickup and delivery			
12,891	9.08	16.1	Profit	14,975	9.04	18.7
128,907	90.78	161.0	Total operating cost	149,749	90.37	187.2

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 * Imperial Equivalent Summary *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 137,788 lbs.
 Average payload -- 69,577 lbs.
 Estimated annual quantity -- 8,697 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

259.1 Total Operating Cost 301.3

Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
62500 kg.	62500 kg.
31560 kg.	31560 kg.
15780 tonnes	15780 tonnes
5.7 hrs.	6.6 hrs.
2841 hrs.	3314 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 16832	\$ 16832
\$ 23296	\$ 0
\$ 0	\$ 36939
\$ 8547	\$ 11453

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
48,675	17.14	30.4	Tractor variable costs			
33,822	11.91	21.1	Driver	65,224	19.68	40.8
21,139	7.44	13.2	Fuel	33,822	10.21	21.1
955	0.34	0.6	Repairs	25,367	7.65	15.9
2,063	0.73	1.3	Cleaning	955	0.29	0.6
4,870	1.71	3.0	Transport	2,063	0.62	1.3
111,524	39.27	69.6	Tires	8,278	2.50	5.2
			Total tractor variable	135,709	40.95	84.9
18,784	6.61	11.7	Tractor fixed costs			
2,178	0.77	1.4	Depreciation	18,784	5.67	11.7
20,962	7.38	13.1	Licences	2,178	0.66	1.4
			Total tractor fixed	20,962	6.33	13.1
132,486	46.65	82.7	Tractor total	156,671	47.28	98.0
11,563	4.07	7.2	Trailer variable costs			
1,194	0.42	0.7	Repairs	13,875	4.19	8.7
1,954	0.69	1.2	Cleaning	1,194	0.36	0.7
6,850	2.13	3.8	Transport	1,954	0.59	1.2
20,761	7.31	12.9	Tires	9,983	3.01	6.2
			Total trailer variable	27,006	8.15	16.8
4,939	1.74	3.1	Trailer fixed costs			
50	0.02		Depreciation	4,939	1.49	3.1
4,989	1.76	3.1	Licences	50	0.02	
			Total trailer fixed	4,989	1.51	3.1
25,750	9.07	16.0	Trailer total	31,995	9.66	19.9
150,236	55.72	98.7	Total vehicle costs	188,666	56.94	117.9
6,503	2.29	4.1	Insurance costs	7,753	2.34	4.8
30,347	10.68	19.0	Admin. and interest	36,183	10.92	22.6
21,676	7.63	13.5	Pickup and delivery			
216,762	76.32	135.3	Profit	25,845	7.80	16.2
			Total operating cost	258,447	78.00	161.5

Imperial Equivalent Summary

A. Annual distance travelled -- 99,424 mi.
Gross vehicle weight -- 137,788 lbs.
Average payload -- 69,577 lbs.
Estimated annual quantity -- 17,394 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

217.7 Total Operating Cost 259.9

Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	31560 kg.	31560 kg.
Estimated Annual Quantity	23670 tonnes	23670 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 25248	\$ 25248
Distance wage	\$ 34944	\$ 0
Hourly wage	\$ 0	\$ 55408
Wage burden	\$ 12821	\$ 17180

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
73,013	17.14	30.4	Driver	97,836	19.68	40.8
50,733	11.91	21.1	Fuel	50,733	10.21	21.1
31,708	7.44	13.2	Repairs	38,050	7.65	15.9
1,433	0.34	0.6	Cleaning	1,433	0.29	0.6
2,063	0.48	0.9	Transport	2,063	0.41	0.9
7,304	1.71	3.0	Tires	12,417	2.50	5.2
166,254	39.02	69.2	Total tractor variable	202,532	40.74	84.5
			Tractor fixed costs			
10,784	4.41	7.8	Depreciation	10,784	3.78	7.8
2,170	0.51	0.9	Licences	2,170	0.44	0.9
20,962	4.92	8.7	Total tractor fixed	20,962	4.22	8.7
187,216	43.94	77.9	Tractor total	223,494	44.96	93.2
			Trailer variable costs			
17,344	4.07	7.2	Repairs	20,813	4.19	8.7
1,791	0.42	0.7	Cleaning	1,791	0.36	0.7
1,954	0.45	0.8	Transport	1,954	0.39	0.8
9,075	2.13	3.8	Tires	14,974	3.01	6.2
30,164	7.08	12.5	Total trailer variable	39,532	7.95	16.4
			Trailer fixed costs			
4,939	1.16	2.1	Depreciation	4,939	0.99	2.1
50	0.01		Licences	50	0.01	
4,989	1.17	2.1	Total trailer fixed	4,989	1.00	2.1
35,153	8.25	14.6	Trailer total	44,521	8.95	18.5
222,369	52.19	92.5	Total vehicle costs	268,015	53.91	111.7
9,139	2.14	3.8	Insurance costs	11,014	2.22	4.6
42,646	10.01	17.8	Admin. and interest	51,400	10.34	21.4
30,462	7.15	12.7	Pickup and delivery	36,714	7.39	15.3
304,616	71.49	126.8	Profit	36,714	7.39	15.3
			Total operating cost	367,143	73.86	153.0

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	137,788 lbs.
Average payload --	69,577 lbs.
Estimated annual quantity --	26,091 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

204.1

Total Operating Cost

246.2

Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Dry Freight

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	55000 kg.	55000 kg.
Average Payload	38320 kg.	38320 kg.
Estimated Annual Quantity	9580 tonnes	9580 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 15924	\$ 15924
Distance wage	\$ 20184	\$ 0
Hourly wage	\$ 0	\$ 30186
Wage burden	\$ 9208	\$ 11758

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
45,316	31.91	56.6	Tractor variable costs			
20,467	14.41	25.6	Driver	57,868	34.92	72.3
11,563	8.14	14.5	Fuel	20,467	12.35	25.6
597	0.42	0.7	Repairs	13,875	8.37	17.3
3,149	2.22	3.9	Cleaning	597	0.36	0.7
3,612	2.54	4.5	Transport	3,149	1.90	3.9
84,704	59.64	105.8	Tires	6,141	3.71	7.7
			Total tractor variable	102,097	61.61	127.5
			Tractor fixed costs			
16,600	11.69	20.8	Depreciation	16,600	10.02	20.8
1,230	0.87	1.5	Licences	1,230	0.74	1.5
17,830	12.56	22.3	Total tractor fixed	17,830	10.76	22.3
102,534	72.20	128.1	Tractor total	119,927	72.37	149.8
			Trailer variable costs			
6,189	4.36	7.7	Repairs	7,426	4.48	9.3
836	0.59	1.0	Cleaning	836	0.50	1.0
2,280	1.61	2.9	Transport	2,280	1.38	2.9
6,610	4.65	8.3	Tires	10,906	6.58	13.6
15,915	11.21	19.9	Total trailer variable	21,448	12.94	26.8
			Trailer fixed costs			
4,410	3.10	5.5	Depreciation	4,410	2.66	5.5
56	0.04	0.1	Licences	56	0.03	0.1
4,466	3.14	5.6	Total trailer fixed	4,466	2.69	5.6
20,381	14.35	25.5	Trailer total	25,914	15.63	32.4
122,915	86.55	153.6	Total vehicle costs	145,841	88.00	182.2
			Insurance costs	5,993	3.62	7.5
5,051	3.56	6.3	Admin. and interest	27,970	16.88	35.0
23,573	16.60	29.5	Pickup and delivery			
16,838	11.86	21.0	Profit	19,978	12.06	25.0
168,377	118.57	210.4	Total operating cost	199,782	120.56	249.7

Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 121,253 lbs.
 Average payload -- 84,480 lbs.
 Estimated annual quantity -- 10,560 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

338.6

Total Operating Cost 401.8

Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	55000 kg.	55000 kg.
Average Payload	38320 kg.	38320 kg.
Estimated Annual Quantity	19160 tonnes	19160 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 31848	\$ 31848
Distance wage	\$ 40368	\$ 0
Hourly wage	\$ 0	\$ 60372
Wage burden	\$ 18415	\$ 23516

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
90,631	31.91	56.6	Driver	115,736	34.92	72.3
40,934	14.41	25.6	Fuel	40,934	12.35	25.6
23,126	8.14	14.5	Repairs	27,751	8.37	17.3
1,194	0.42	0.7	Cleaning	1,194	0.36	0.7
3,149	1.11	2.0	Transport	3,149	0.95	2.0
7,224	2.54	4.5	Tires	12,281	3.71	7.7
166,258	58.53	103.9	Total tractor variable	201,045	60.66	125.6
			Tractor fixed costs			
16,600	5.84	10.4	Depreciation	16,600	5.01	10.4
1,230	0.43	0.8	Licences	1,230	0.37	0.8
17,830	6.27	11.2	Total tractor fixed	17,830	5.38	11.2
184,088	64.80	115.1	Tractor total	218,875	66.04	136.8
			Trailer variable costs			
12,377	4.36	7.7	Repairs	14,853	4.48	9.3
1,672	0.59	1.0	Cleaning	1,672	0.50	1.0
2,280	0.80	1.4	Transport	2,280	0.69	1.4
13,219	4.65	8.3	Tires	21,811	6.58	13.6
29,548	10.40	18.4	Total trailer variable	40,616	12.25	25.3
			Trailer fixed costs			
4,410	1.55	2.8	Depreciation	4,410	1.33	2.8
56	0.02		Licences	56	0.02	
4,466	1.57	2.8	Total trailer fixed	4,466	1.35	2.8
34,014	11.97	21.2	Trailer total	45,082	13.60	28.1
218,102	76.77	136.3	Total vehicle costs	263,957	79.64	164.9
8,963	3.16	5.6	Insurance costs	10,848	3.27	6.8
41,828	14.72	26.1	Admin. and interest	50,622	15.27	31.6
20,877	10.52	18.7	Pickup and delivery	36,159	10.91	22.6
298,770	105.17	186.7	Profit	361,586	109.09	225.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	121,253 lbs.
Average payload --	84,480 lbs.
Estimated annual quantity --	21,120 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

300.5

Total Operating Cost 363.5

Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	55000 kg.	55000 kg.
Average Payload	38320 kg.	38320 kg.
Estimated Annual Quantity	28740 tonnes	28740 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 47772	\$ 47772
Distance wage	\$ 60552	\$ 0
Hourly wage	\$ 0	\$ 90558
Wage burden	\$ 27623	\$ 35274

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
135,947	31.91	56.6	Tractor variable costs			
61,401	14.41	25.6	Driver	173,604	34.92	72.3
34,688	8.14	14.5	Fuel	61,401	12.35	25.6
1,791	0.42	0.7	Repairs	41,626	8.37	17.3
3,149	0.74	1.3	Cleaning	1,791	0.36	0.7
10,837	2.54	4.5	Transport	3,149	0.63	1.3
247,813	58.16	103.2	Tires	18,422	3.71	7.7
			Total tractor variable	299,993	60.34	124.9
16,600	3.90	6.9	Tractor fixed costs			
1,230	0.29	0.5	Depreciation	16,600	3.34	6.9
17,830	4.19	7.4	Licences	1,230	0.25	0.5
			Total tractor fixed	17,830	3.59	7.4
265,643	62.35	110.6	Tractor total	317,823	63.93	132.3
18,566	4.36	7.7	Trailer variable costs			
2,508	0.59	1.0	Repairs	22,279	4.48	9.3
2,280	0.54	1.0	Cleaning	2,508	0.50	1.0
19,829	4.65	8.3	Transport	2,280	0.46	1.0
43,183	10.14	18.0	Tires	32,717	6.58	13.6
			Total trailer variable	59,784	12.02	24.9
4,410	1.03	1.8	Trailer fixed costs			
56	0.01		Depreciation	4,410	0.89	1.8
4,466	1.04	1.8	Licences	56	0.01	
			Total trailer fixed	4,466	0.90	1.8
47,649	11.18	19.8	Trailer total	64,250	12.92	26.7
313,292	73.53	130.4	Total vehicle costs	382,073	76.85	159.0
12,875	3.02	5.4	Insurance costs	15,702	3.16	6.5
60,083	14.10	25.0	Admin. and interest	73,274	14.74	30.5
42,917	10.07	17.9	Pickup and delivery			
429,167	100.72	178.7	Profit	52,339	10.53	21.8
			Total operating cost	523,388	105.28	217.8

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	121,253 lbs.
Average payload --	84,480 lbs.
Estimated annual quantity --	31,680 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

287.6 Total Operating Cost 350.5

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Dry Freight

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	63300 kg.	63300 kg.
	Average Payload	38320 kg.	38320 kg.
	Estimated Annual Quantity	9580 tonnes	9580 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 18213	\$ 18213
	Distance wage	\$ 25096	\$ 0
	Hourly wage	\$ 0	\$ 34524
	Wage burden	\$ 9744	\$ 11866

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
			Tractor variable costs			
53,053	37.35	66.3	Driver	64,603	38.99	80.8
20,782	14.63	26.0	Fuel	20,782	12.54	26.0
11,726	8.26	14.7	Repairs	14,071	8.49	17.6
776	0.55	1.0	Cleaning	776	0.47	1.0
4,126	2.90	5.2	Transport	4,126	2.49	5.2
4,304	3.03	5.4	Tires	7,317	4.42	9.1
94,767	66.72	118.6	Total tractor variable	111,675	67.40	139.7
			Tractor fixed costs			
16,600	11.69	20.8	Depreciation	16,600	10.02	20.8
1,740	1.23	2.2	Licences	1,740	1.05	2.2
18,340	12.92	23.0	Total tractor fixed	18,340	11.07	23.0
113,107	79.64	141.6	Tractor total	130,015	78.47	162.7
			Trailer variable costs			
6,189	4.36	7.7	Repairs	7,426	4.48	9.3
955	0.67	1.2	Cleaning	955	0.58	1.2
2,931	2.06	3.7	Transport	2,931	1.77	3.7
6,610	4.65	8.3	Tires	10,906	6.58	13.6
16,685	11.74	20.9	Total trailer variable	22,218	13.41	27.8
			Trailer fixed costs			
4,410	3.10	5.5	Depreciation	4,410	2.66	5.5
20	0.01		Licences	20	0.01	
4,430	3.11	5.5	Total trailer fixed	4,430	2.67	5.5
21,115	14.85	26.4	Trailer total	26,648	16.08	33.3
134,222	94.49	168.0	Total vehicle costs	156,663	94.55	196.0
5,516	3.88	6.9	Insurance costs	6,438	3.89	8.0
25,741	18.12	32.2	Admin. and interest	30,045	18.13	37.6
18,387	12.95	23.0	Pickup and delivery			
183,866	129.44	230.1	Profit	21,461	12.95	26.8
			Total operating cost	214,607	129.52	268.4

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	139,551 lbs.
	Average payload --	84,480 lbs.
	Estimated annual quantity --	10,560 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

370.3 Total Operating Cost 431.9

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Dry Freight

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63300 kg.	63300 kg.
Average Payload	38320 kg.	38320 kg.
Estimated Annual Quantity	19160 tonnes	19160 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 36425	\$ 36425
Distance wage	\$ 50192	\$ 0
Hourly wage	\$ 0	\$ 69048
Wage burden	\$ 19489	\$ 23732

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
106,106	37.35	66.3	Tractor variable costs			
41,565	14.63	26.0	Driver	129,205	38.99	80.8
23,451	8.26	14.7	Fuel	41,565	12.54	26.0
1,553	0.55	1.0	Repairs	28,142	8.49	17.6
4,126	1.45	2.6	Cleaning	1,553	0.47	1.0
8,608	3.03	5.4	Transport	4,126	1.24	2.6
185,409	65.27	116.0	Tires	14,633	4.42	9.1
			Total tractor variable	219,224	66.15	137.1
			Tractor fixed costs			
16,600	5.84	10.4	Depreciation	16,600	5.01	10.4
1,740	0.61	1.1	Licences	1,740	0.53	1.1
18,340	6.45	11.5	Total tractor fixed	18,340	5.54	11.5
203,749	71.72	127.5	Tractor total	237,564	71.69	148.6
			Trailer variable costs			
12,377	4.36	7.7	Repairs	14,853	4.48	9.3
1,911	0.67	1.2	Cleaning	1,911	0.58	1.2
2,931	1.03	1.8	Transport	2,931	0.88	1.8
13,219	4.65	8.3	Tires	21,811	6.58	13.6
30,438	10.71	19.0	Total trailer variable	41,506	12.52	25.9
			Trailer fixed costs			
4,410	1.55	2.8	Depreciation	4,410	1.33	2.8
20	0.01		Licences	20	0.01	
4,430	1.56	2.8	Total trailer fixed	4,430	1.34	2.8
34,868	12.27	21.8	Trailer total	45,936	13.86	28.7
238,617	83.99	149.3	Total vehicle costs	283,500	85.55	177.3
9,806	3.45	6.1	Insurance costs	11,651	3.52	7.3
45,762	16.11	28.6	Admin. and interest	54,370	16.41	34.0
32,687	11.51	20.4	Pickup and delivery			
326,872	115.06	204.4	Profit	38,836	11.72	24.3
			Total operating cost	388,357	117.20	242.9

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	139,551 lbs.
Average payload --	84,480 lbs.
Estimated annual quantity --	21,120 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

328.9 Total Operating Cost 390.9

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Dry Freight

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63300 kg.	63300 kg.
Average Payload	38320 kg.	38320 kg.
Estimated Annual Quantity	28740 tonnes	28740 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 54638	\$ 54638
Distance wage	\$ 75288	\$ 0
Hourly wage	\$ 0	\$ 103572
Wage burden	\$ 29233	\$ 35597

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.		Cost per Running Hour \$	Cost per km.
			Tractor variable costs		
159,159	37.35	66.3	Driver	193,807	38.99
62,347	14.63	26.0	Fuel	62,347	12.54
35,177	8.26	14.7	Repairs	42,212	8.49
2,329	0.55	1.0	Cleaning	2,329	0.47
4,126	0.97	1.7	Transport	4,126	0.83
12,912	3.03	5.4	Tires	21,950	4.42
276,050	64.79	115.1	Total tractor variable	326,771	65.74
			Tractor fixed costs		
16,600	3.90	6.9	Depreciation	16,600	3.34
1,740	0.41	0.7	Licences	1,740	0.35
18,340	4.31	7.6	Total tractor fixed	18,340	3.69
294,390	69.10	122.7	Tractor total	345,111	69.43
			Trailer variable costs		
18,566	4.36	7.7	Repairs	22,279	4.48
2,866	0.67	1.2	Cleaning	2,866	0.58
2,931	0.69	1.2	Transport	2,931	0.59
19,829	4.65	8.3	Tires	32,717	6.58
44,192	10.37	18.4	Total trailer variable	60,793	12.23
			Trailer fixed costs		
4,410	1.03	1.8	Depreciation	4,410	0.89
20			Licences	20	
4,430	1.03	1.8	Total trailer fixed	4,430	0.89
48,622	11.40	20.2	Trailer total	65,223	13.12
343,012	80.50	142.9	Total vehicle costs	410,334	82.55
14,096	3.31	5.9	Insurance costs	16,863	3.39
65,783	15.44	27.4	Admin. and interest	78,694	15.83
46,988	11.03	19.6	Pickup and delivery	56,210	11.31
469,879	110.28	195.8	Profit	562,101	113.08
			Total operating cost		234.1

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 149,136 mi. *

* Gross vehicle weight -- 139,551 lbs. *

* Average payload -- 84,480 lbs. *

* Estimated annual quantity -- 31,680 tons *

* B. Total Operating Cost per mile (cents/mile) *

* P a v e d r o a d s G r a v e l r o a d s *

* 315.1 Total Operating Cost 376.7 *

7/8 AXLE

SEMI-TRAILER AND PUP

BULK



Configuration -- semi-trailer and pup 8 axles

British Columbia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	42860 kg.	42860 kg.
Estimated Annual Quantity	10715 tonnes	10715 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.
B. Driver Costs		
Load - unload time cost	\$ 4472	\$ 4472
Distance wage	\$ 19944	\$ 0
Hourly wage	\$ 0	\$ 23513
Wage burden	\$ 5957	\$ 6828

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
30,373	21.38	30.0	Tractor variable costs			
20,312	14.30	25.4	Driver	34,813	21.01	43.5
11,716	8.25	14.6	Fuel	20,312	12.26	25.4
208	0.15	0.3	Repairs	14,059	8.48	17.6
3,400	2.39	4.3	Cleaning	208	0.13	0.3
2,780	1.96	3.5	Transport	3,400	2.05	4.3
68,789	48.43	86.1	Tires	4,727	2.85	5.9
			Total tractor variable	77,519	46.78	97.8
			Tractor fixed costs			
17,565	12.37	22.0	Depreciation	17,565	10.60	22.0
2,677	1.88	3.3	Licences	2,677	1.62	3.3
20,242	14.25	25.3	Total tractor fixed	20,242	12.22	25.3
89,031	62.68	111.4	Tractor total	97,761	59.00	122.3
			Trailer variable costs			
6,589	4.64	8.2	Repairs	7,907	4.77	9.9
1,269	0.89	1.6	Cleaning	1,269	0.77	1.6
3,105	2.19	3.9	Transport	3,105	1.87	3.9
2,414	1.70	3.0	Tires	3,984	2.40	5.0
13,377	9.42	16.7	Total trailer variable	16,265	9.81	20.4
			Trailer fixed costs			
12,020	8.46	15.0	Depreciation	12,020	7.25	15.0
50	0.04	0.1	Licences	50	0.03	0.1
12,070	8.50	15.1	Total trailer fixed	12,070	7.28	15.1
25,447	17.92	31.8	Trailer total	28,335	17.09	35.5
114,478	80.60	143.2	Total vehicle costs	126,096	76.09	157.8
4,705	3.31	5.9	Insurance costs	5,182	3.13	6.5
21,955	15.46	27.4	Admin. and interest	24,183	14.59	30.2
15,682	11.04	19.6	Pickup and delivery			
156,820	110.41	196.1	Profit	17,273	10.42	21.6
			Total operating cost	172,734	104.23	216.1

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	139,992 lbs.
Average payload --	94,489 lbs.
Estimated annual quantity --	11,811 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

315.6

Total Operating Cost 347.8

Configuration -- semi-trailer and pup 8 axles

British Columbia

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	42860 kg.	42860 kg.
Estimated Annual Quantity	21430 tonnes	21430 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 8944	\$ 8944
Distance wage	\$ 39888	\$ 0
Hourly wage	\$ 0	\$ 47827
Wage burden	\$ 11915	\$ 13637

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
60,747	21.39	38.0	Tractor variable costs	69,628	21.01	43.5
40,623	14.30	25.4	Driver	40,623	12.26	25.4
23,432	8.25	14.6	Fuel	20,110	8.48	17.6
416	0.15	0.3	Repairs	416	0.13	0.3
3,400	1.20	2.1	Cleaning	3,400	1.03	2.1
5,361	1.96	3.5	Transport	9,453	2.85	5.0
134,179	47.25	83.9	Tires	151,030	45.76	94.0
			Total tractor variable			
17,565	6.18	11.0	Tractor fixed costs	17,565	5.30	11.0
2,677	0.94	1.7	Depreciation	2,677	0.81	1.7
20,242	7.12	12.7	Licences	20,242	6.11	12.7
			Total tractor fixed			
154,421	54.37	96.6	Tractor total	171,000	51.07	107.5
13,170	4.64	8.2	Trailer variable costs	15,014	4.77	9.9
2,530	0.89	1.6	Repairs	2,530	0.77	1.6
3,105	1.09	1.9	Cleaning	3,105	0.94	1.9
4,029	1.70	3.0	Transport	7,960	2.40	5.0
23,650	8.32	14.7	Tires	29,425	8.88	18.4
			Total trailer variable			
12,020	4.23	7.5	Trailer fixed costs	12,020	3.63	7.5
50	0.02		Depreciation	50	0.02	
12,070	4.25	7.5	Licences	12,070	3.65	7.5
			Total trailer fixed			
35,720	12.57	22.2	Trailer total	41,495	12.53	25.9
190,141	66.94	118.8	Total vehicle costs	213,375	64.40	133.4
7,814	2.75	4.9		8,769	2.65	5.5
36,465	12.84	22.8	Insurance costs	40,921	12.35	25.6
26,047	9.17	16.3	Admin. and interest	29,230	8.82	18.3
260,467	91.70	162.8	Pickup and delivery	292,295	88.22	182.0
			Profit			
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	139,992 lbs.
Average payload --	94,409 lbs.
Estimated annual quantity --	23,622 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

262.0

Total Operating Cost

294.2

Configuration -- semi-trailer and pup 8 axles

British Columbia

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	42860 kg.	42860 kg.
Estimated Annual Quantity	32145 tonnes	32145 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

	Paved Road	Gravel Road
Load - unload time cost	\$ 13416	\$ 13416
Distance wage	\$ 59832	\$ 0
Hourly wage	\$ 0	\$ 70540
Wage burden	\$ 17872	\$ 20485

C. Total Operating Costs
 Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
91,120	21.30	30.0	Tractor variable costs			
60,935	14.30	25.4	Driver	104,441	21.01	43.5
35,140	8.25	14.6	Fuel	60,935	12.26	25.4
623	0.15	0.3	Repairs	42,177	8.48	17.6
3,400	0.80	1.4	Cleaning	623	0.13	0.3
8,341	1.96	3.5	Transport	3,400	0.68	1.4
199,567	46.04	83.2	Tires	14,180	2.85	5.9
			Total tractor variable	225,756	45.41	94.1
17,565	4.12	7.3	Tractor fixed costs			
2,677	0.63	1.1	Depreciation	17,565	3.53	7.3
20,242	4.75	8.4	Licences	2,677	0.54	1.1
			Total tractor fixed	20,242	4.07	8.4
219,809	51.59	91.6	Tractor total	245,998	49.48	102.5
10,760	4.64	8.2	Trailer variable costs			
3,807	0.89	1.6	Repairs	23,721	4.77	9.9
3,105	0.73	1.3	Cleaning	3,807	0.77	1.6
7,243	1.70	3.0	Transport	3,105	0.62	1.3
33,923	7.96	14.1	Tires	11,952	2.40	5.0
			Total trailer variable	42,585	8.56	17.8
12,020	2.82	5.0	Trailer fixed costs			
50	0.01	0.0	Depreciation	12,020	2.42	5.0
12,070	2.83	5.0	Licences	50	0.01	0.0
			Total trailer fixed	12,070	2.43	5.0
45,993	10.79	19.1	Trailer total	54,655	10.99	22.8
265,802	62.38	110.7	Total vehicle costs	300,653	60.47	125.3
10,923	2.56	4.6	Insurance costs	12,356	2.49	5.1
50,976	11.96	21.2	Admin. and interest	57,660	11.60	24.0
36,411	8.55	15.2	Pickup and delivery			
364,112	85.45	151.7	Profit	41,185	8.28	17.2
			Total operating cost	411,854	82.84	171.6

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 139,992 lbs.
 Average payload -- 94,489 lbs.
 Estimated annual quantity -- 35,433 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

244.1

Total Operating Cost 276.2

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	53500 kg.	53500 kg.
Average Payload	34450 kg.	34450 kg.
Estimated Annual Quantity	8613 tonnes	8613 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3019	\$ 3019
Distance wage	\$ 16176	\$ 0
Hourly wage	\$ 0	\$ 19752
Wage burden	\$ 4972	\$ 5898

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
24,167	17.02	30.2	Tractor variable costs	28,669	17.30	35.8
13,190	9.29	16.5	Driver	13,190	7.96	16.5
11,454	8.06	14.3	Fuel	13,745	8.29	17.2
657	0.46	0.8	Repairs	657	0.40	0.8
3,149	2.22	3.9	Cleaning	3,149	1.90	3.9
2,402	1.69	3.0	Transport	4,083	2.46	5.1
55,019	38.74	68.7	Tires	63,493	38.31	79.3
			Total tractor variable			
16,584	11.68	20.7	Tractor fixed costs	16,584	10.01	20.7
2,094	1.47	2.6	Depreciation	2,094	1.26	2.6
18,678	13.15	23.3	Licences	18,678	11.27	23.3
			Total tractor fixed			
73,697	51.89	92.0	Tractor total	82,171	49.58	102.6
			Trailer variable costs			
5,653	3.98	7.1	Repairs	6,783	4.09	8.5
1,511	1.06	1.9	Cleaning	1,511	0.91	1.9
2,063	1.45	2.6	Transport	2,063	1.24	2.6
3,021	2.13	3.8	Tires	4,985	3.01	6.2
12,248	8.62	15.4	Total trailer variable	15,342	9.25	19.2
			Trailer fixed costs			
11,340	7.98	14.2	Depreciation	11,340	6.84	14.2
40	0.03	0.1	Licences	40	0.02	0.1
11,380	8.01	14.3	Total trailer fixed	11,380	6.86	14.3
			Trailer total			
23,628	16.63	29.7		26,722	16.11	33.5
97,325	68.52	121.7	Total vehicle costs	108,893	65.69	136.1
4,000	2.82	5.0	Insurance costs	4,475	2.70	5.6
18,665	13.14	23.3	Admin. and interest	20,884	12.60	26.1
			Pickup and delivery			
13,332	9.39	16.7	Profit	14,917	9.00	18.6
133,322	93.87	166.7	Total operating cost	149,169	89.99	186.4

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Imperial Equivalent Summary

.....

A. Annual distance travelled -- 49,712 mi.

Gross vehicle weight -- 117,946 lbs.

Average payload -- 75,948 lbs.

Estimated annual quantity -- 9,494 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

260.3

Total Operating Cost 300.0

.....

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		53500 kg.	53500 kg.
Average Payload		34450 kg.	34450 kg.
Estimated Annual Quantity		17225 tonnes	17225 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		2841 hrs.	3314 hrs.
B. Driver Costs			
Load - unload time cost		\$ 6039	\$ 6039
Distance wage		\$ 32352	\$ 0
Hourly wage		\$ 0	\$ 39504
Wage burden		\$ 9943	\$ 11796

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
48,334	17.02	30.2	Tractor variable costs			
26,380	9.29	16.5	Driver	57,339	17.30	35.0
22,908	8.06	14.3	Fuel	26,380	7.96	16.5
1,314	0.46	0.8	Repairs	27,490	8.29	17.2
3,149	1.11	2.0	Cleaning	1,314	0.40	0.8
4,803	1.69	3.0	Transport	3,149	0.95	2.0
106,888	37.63	66.8	Tires	0,165	2.46	5.1
			Total tractor variable	123,837	37.36	77.4
16,584	5.84	10.4	Tractor fixed costs			
2,094	0.74	1.3	Depreciation	16,584	5.00	10.4
18,678	6.58	11.7	Licences	2,094	0.63	1.3
			Total tractor fixed	18,678	5.63	11.7
125,566	44.21	78.5	Tractor total	142,515	42.99	89.1
11,305	3.98	7.1	Trailer variable costs			
3,022	1.06	1.9	Repairs	13,567	4.09	8.5
2,063	0.73	1.3	Cleaning	3,022	0.91	1.9
6,043	2.13	3.0	Transport	2,063	0.62	1.3
22,433	7.90	14.1	Tires	9,970	3.01	6.2
			Total trailer variable	28,622	8.63	17.9
11,340	3.99	7.1	Trailer fixed costs			
40	0.01		Depreciation	11,340	3.42	7.1
11,380	4.00	7.1	Licences	40	0.01	
			Total trailer fixed	11,380	3.43	7.1
33,813	11.90	21.2	Trailer total	40,002	12.06	25.0
159,379	56.11	99.7	Total vehicle costs	182,517	55.05	114.1
6,550	2.31	4.1	Insurance costs	7,501	2.26	4.7
30,566	10.76	19.1	Admin. and interest	35,003	10.56	21.9
21,833	7.69	13.6	Pickup and delivery			
218,328	76.87	136.5	Profit	25,002	7.54	15.6
			Total operating cost	250,023	75.41	156.3

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	117,946 lbs.
Average payload --	75,948 lbs.
Estimated annual quantity --	18,987 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

219.7

Total Operating Cost 251.5

Configuration -- semi-trailer and pup 7 axles

Alberta

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	53500 kg.	53500 kg.
Average Payload	34450 kg.	34450 kg.
Estimated Annual Quantity	25038 tonnes	25038 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 9058	\$ 9058
Distance wage	\$ 48528	\$ 0
Hourly wage	\$ 0	\$ 59256
Wage burden	\$ 14915	\$ 17693

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
72,501	17.02	30.2	Tractor variable costs			
19,570	9.29	16.5	Driver	36,007	17.30	35.8
34,363	8.06	14.3	Fuel	39,570	7.96	16.5
1,971	0.46	0.8	Repairs	41,235	0.29	17.2
3,149	0.74	1.3	Cleaning	1,971	0.40	0.8
7,205	1.69	3.0	Transport	3,149	0.63	1.3
158,759	37.26	56.1	Tires	12,240	2.46	5.1
			Total tractor variable	104,100	37.04	76.7
16,584	3.89	6.9	Tractor fixed costs			
2,094	0.49	0.9	Depreciation	16,584	3.34	6.9
10,678	4.38	7.8	Licences	2,094	0.42	0.9
			Total tractor fixed	18,678	3.76	7.8
177,437	41.64	73.9	Tractor total	202,858	40.80	84.5
16,958	3.98	7.1	Trailer variable costs			
4,532	1.06	1.9	Repairs	20,350	4.09	8.5
2,063	0.48	0.9	Cleaning	4,532	0.91	1.9
9,064	2.13	3.8	Transport	2,063	0.41	0.9
32,617	7.65	13.7	Tires	14,955	3.01	6.2
			Total trailer variable	41,900	8.42	17.5
11,340	2.66	4.7	Trailer fixed costs			
40	0.01		Depreciation	11,340	2.28	4.7
11,380	2.67	4.7	Licences	40	0.01	
			Total trailer fixed	11,380	2.29	4.7
43,997	10.32	18.4	Trailer total	53,280	10.71	22.2
221,434	51.96	92.3	Total vehicle costs	256,138	51.51	106.7
9,100	2.14	3.8	Insurance costs	10,526	2.12	4.4
42,467	9.97	17.7	Admin. and interest	49,122	9.88	20.5
30,333	7.12	12.6	Pickup and delivery			
303,334	71.19	126.4	Profit	35,087	7.06	14.6
			Total operating cost	350,873	70.57	146.2

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	117,946 lbs.
Average payload --	75,948 lbs.
Estimated annual quantity --	20,481 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

203.4

Total Operating Cost 235.3

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	53500 kg.	53500 kg.
Average Payload	34450 kg.	34450 kg.
Estimated Annual Quantity	8613 tonnes	8613 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2596	\$ 2596
Distance wage	\$ 13120	\$ 0
Hourly wage	\$ 0	\$ 16985
Wage burden	\$ 3882	\$ 4837

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
19,598	13.80	24.5	Tractor variable costs			
14,976	10.54	18.7	Driver	24,418	14.74	30.5
9,337	6.57	11.7	Fuel	14,976	9.04	18.7
522	0.37	0.7	Repairs	11,205	6.76	14.0
2,497	1.76	3.1	Cleaning	522	0.32	0.7
2,306	1.62	2.9	Transport	2,497	1.51	3.1
49,236	34.66	61.6	Tires	3,920	2.37	4.9
			Total tractor variable	57,538	34.74	71.9
			Tractor fixed costs			
17,745	12.49	22.2	Depreciation	17,745	10.71	22.2
3,174	2.23	4.0	Licences	3,174	1.92	4.0
20,919	14.72	26.2	Total tractor fixed	20,919	12.63	26.2
70,155	49.38	87.8	Tractor total	78,457	47.37	98.1
			Trailer variable costs			
6,840	4.82	8.6	Repairs	8,208	4.95	10.3
1,344	0.95	1.7	Cleaning	1,344	0.81	1.7
2,171	1.53	2.7	Transport	2,171	1.31	2.7
2,997	2.11	3.7	Tires	4,946	2.98	6.2
13,352	9.41	16.7	Total trailer variable	16,669	10.05	20.9
			Trailer fixed costs			
12,134	8.54	15.2	Depreciation	12,134	7.32	15.2
64	0.05	0.1	Licences	64	0.04	0.1
12,198	8.59	15.3	Total trailer fixed	12,198	7.36	15.3
25,550	18.00	32.0	Trailer total	28,867	17.41	36.2
95,705	67.38	119.8	Total vehicle costs	107,324	64.78	134.3
3,933	2.77	4.9	Insurance costs	4,411	2.66	5.5
18,354	12.92	22.9	Admin. and interest	20,583	12.42	25.7
13,110	9.23	16.4	Pickup and delivery			
131,102	92.30	164.0	Profit	14,702	8.87	18.4
			Total operating cost	147,020	88.73	183.9

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	117,946 lbs.
Average payload --	75,948 lbs.
Estimated annual quantity --	9,494 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

263.9

Total Operating Cost 296.0

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	53500 kg.	53500 kg.
Average Payload	34450 kg.	34450 kg.
Estimated Annual Quantity	17225 tonnes	17225 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5193	\$ 5193
Distance wage	\$ 26240	\$ 0
Hourly wage	\$ 0	\$ 33969
Wage burden	\$ 7764	\$ 9673

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
			Tractor variable costs			
39,197	13.80	24.5	Driver	48,835	14.74	30.5
29,953	10.54	18.7	Fuel	29,953	9.04	18.7
18,674	6.57	11.7	Repairs	22,409	6.76	14.0
1,045	0.37	0.7	Cleaning	1,045	0.32	0.7
2,497	0.88	1.6	Transport	2,497	0.75	1.6
4,611	1.62	2.9	Tires	7,839	2.37	4.9
95,977	33.78	60.1	Total tractor variable	112,578	33.98	70.4
			Tractor fixed costs			
17,745	6.25	11.1	Depreciation	17,745	5.35	11.1
3,174	1.12	2.0	Licences	3,174	0.96	2.0
20,919	7.37	13.1	Total tractor fixed	20,919	6.31	13.1
116,896	41.15	73.2	Tractor total	133,497	40.29	83.5
			Trailer variable costs			
13,680	4.82	8.6	Repairs	16,416	4.95	10.3
2,687	0.95	1.7	Cleaning	2,687	0.81	1.7
2,171	0.76	1.4	Transport	2,171	0.66	1.4
5,995	2.11	3.7	Tires	9,891	2.98	6.2
24,533	8.64	15.4	Total trailer variable	31,165	9.40	19.6
			Trailer fixed costs			
12,134	4.27	7.6	Depreciation	12,134	3.66	7.6
64	0.02		Licences	64	0.02	
12,198	4.29	7.6	Total trailer fixed	12,198	3.68	7.6
36,731	12.93	23.0	Trailer total	43,363	13.08	27.2
153,627	54.08	96.2	Total vehicle costs	176,860	53.37	110.7
6,313	2.22	3.9	Insurance costs	7,268	2.19	4.5
29,463	10.37	18.4	Admin. and interest	33,918	10.23	21.2
21,045	7.41	13.2	Pickup and delivery			
210,448	74.08	131.7	Profit	24,227	7.31	15.1
			Total operating cost	242,273	73.10	151.5

***** Imperial Equivalent Summary *****

A. Annual distance travelled	--	99,424 mi.
Gross vehicle weight	--	117,946 lbs.
Average payload	--	75,948 lbs.
Estimated annual quantity	--	18,987 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

211.9

Total Operating Cost

243.8

Configuration -- semi-trailer and pup 7 axles

Saskatchewan

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization
Gross Vehicle Weight
Average Payload
Estimated Annual Quantity
Trip Running Time
Annual Running Hours

Paved Road	Gravel Road
53500 kg.	53500 kg.
34450 kg.	34450 kg.
25838 tonnes	25838 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
Load - unload time cost
Distance wage
Hourly wage
Wage burden

\$ 7789	\$ 7789
\$ 39363	\$ 0
\$ 0	\$ 50954
\$ 11646	\$ 14510

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
58,795	13.80	24.5	Tractor variable costs			
44,929	10.54	18.7	Driver	73,253	14.74	30.5
28,011	6.57	11.7	Fuel	44,929	9.04	18.7
1,567	0.37	0.7	Repairs	33,614	6.76	14.0
2,497	0.59	1.0	Cleaning	1,567	0.32	0.7
6,917	1.62	2.9	Transport	2,497	0.50	1.0
142,716	33.49	59.5	Tires	11,759	2.37	4.9
			Total tractor variable	167,619	33.73	69.8
			Tractor fixed costs			
17,745	4.16	7.4	Depreciation	17,745	3.57	7.4
3,174	0.74	1.3	Licences	3,174	0.64	1.3
20,919	4.90	8.7	Total tractor fixed	20,919	4.21	8.7
163,635	38.39	68.2	Tractor total	188,538	37.94	78.5
			Trailer variable costs			
20,520	4.82	8.6	Repairs	24,624	4.95	10.3
4,031	0.95	1.7	Cleaning	4,031	0.81	1.7
2,171	0.51	0.9	Transport	2,171	0.44	0.9
8,992	2.11	3.7	Tires	14,837	2.98	6.2
35,714	8.39	14.9	Total trailer variable	45,663	9.18	19.1
			Trailer fixed costs			
12,134	2.85	5.1	Depreciation	12,134	2.44	5.1
64	0.02		Licences	64	0.01	
12,198	2.87	5.1	Total trailer fixed	12,198	2.45	5.1
47,912	11.26	20.0	Trailer total	57,861	11.63	24.2
211,547	49.65	88.2	Total vehicle costs	246,399	49.57	102.7
			Insurance costs			
8,694	2.04	3.6	Admin. and interest	10,126	2.04	4.2
40,571	9.52	16.9	Pickup and delivery	47,254	9.51	19.7
28,979	6.80	12.1	Profit	33,753	6.79	14.1
289,791	68.01	120.8	Total operating cost	337,532	67.91	140.7

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
Gross vehicle weight -- 117,946 lbs.
Average payload -- 75,948 lbs.
Estimated annual quantity -- 28,481 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

194.4

Total Operating Cost 226.4

Configuration -- semi-trailer and pup 8 axles

Manitoba

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	9363 tonnes	9363 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2809	\$ 2809
Distance wage	\$ 13632	\$ 0
Hourly wage	\$ 0	\$ 16902
Wage burden	\$ 4275	\$ 5125

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
20,716	14.59	25.9	Tractor variable costs	24,836	14.99	31.0
15,963	11.24	20.0	Driver	15,963	9.63	20.0
8,957	6.31	11.2	Fuel	10,749	6.49	13.4
932	0.66	1.2	Repairs	932	0.56	1.2
2,714	1.91	3.4	Cleaning	2,714	1.64	3.4
2,404	1.69	3.0	Transport	4,087	2.47	5.1
51,686	36.40	64.7	Tires	59,281	35.78	74.1
			Total tractor variable			
17,792	12.53	22.2	Tractor fixed costs	17,792	10.74	22.2
3,528	2.48	4.4	Depreciation	3,528	2.13	4.4
21,320	15.01	26.6	Licences	21,320	12.87	26.6
			Total tractor fixed			
73,006	51.41	91.3	Tractor total	80,601	48.65	100.7
5,244	3.69	6.6	Trailer variable costs	6,293	3.80	7.9
1,087	0.77	1.4	Repairs	1,087	0.66	1.4
1,086	0.76	1.4	Cleaning	1,086	0.66	1.4
2,758	1.94	3.4	Transport	4,550	2.75	5.7
10,175	7.16	12.8	Tires	13,016	7.87	16.4
			Total trailer variable			
12,134	8.54	15.2	Trailer fixed costs	12,134	7.32	15.2
20	0.01		Depreciation	20	0.01	
12,154	8.55	15.2	Licences	12,154	7.33	15.2
			Total trailer fixed			
22,329	15.71	28.0	Trailer total	25,170	15.20	31.6
95,335	67.12	119.3	Total vehicle costs	105,771	63.85	132.3
3,918	2.76	4.9	Insurance costs	4,347	2.62	5.4
18,283	12.87	22.9	Admin. and interest	20,285	12.24	25.4
			Pickup and delivery			
13,059	9.19	16.3	Profit	14,489	8.74	18.1
130,595	91.94	163.4	Total operating cost	144,892	87.45	181.2

***** Imperial Equivalent Summary *****

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	10,321 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

263.0 Total Operating Cost 291.6

Configuration -- semi-trailer and pup 8 axles

Manitoba

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	18725 tonnes	18725 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5618	\$ 5618
Distance wage	\$ 27264	\$ 0
Hourly wage	\$ 0	\$ 33804
Wage burden	\$ 8549	\$ 10249

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
41,431	14.59	25.9	Tractor variable costs			
31,926	11.24	20.0	Driver	49,671	14.99	31.0
17,914	6.31	11.2	Fuel	31,926	9.63	20.0
1,863	0.66	1.2	Repairs	21,497	6.49	13.4
2,714	0.96	1.7	Cleaning	1,863	0.56	1.2
4,800	1.69	3.0	Transport	2,714	0.82	1.7
100,656	35.45	63.0	Tires	8,174	2.47	5.1
			Total tractor variable	115,845	34.96	72.4
			Tractor fixed costs			
17,792	6.26	11.1	Depreciation	17,792	5.37	11.1
3,528	1.24	2.2	Licences	3,528	1.06	2.2
21,320	7.50	13.3	Total tractor fixed	21,320	6.43	13.3
121,976	42.95	76.3	Tractor total	137,165	41.39	85.7
			Trailer variable costs			
10,488	3.69	6.6	Repairs	12,586	3.80	7.9
2,174	0.77	1.4	Cleaning	2,174	0.66	1.4
1,086	0.38	0.7	Transport	1,086	0.33	0.7
5,515	1.94	3.4	Tires	9,100	2.75	5.7
19,263	6.78	12.1	Total trailer variable	24,946	7.54	15.7
			Trailer fixed costs			
12,134	4.27	7.6	Depreciation	12,134	3.66	7.6
20	0.01		Licences	20	0.01	
12,154	4.28	7.6	Total trailer fixed	12,154	3.67	7.6
31,417	11.06	19.7	Trailer total	37,100	11.21	23.3
153,393	54.01	96.0	Total vehicle costs	174,265	52.60	109.0
6,304	2.22	3.9	Insurance costs	7,162	2.16	4.5
29,418	10.36	18.4	Admin. and interest	33,420	10.08	20.9
21,013	7.40	13.1	Pickup and delivery			
210,128	73.99	131.4	Profit	23,872	7.20	14.9
			Total operating cost	238,719	72.04	149.3

* Imperial Equivalent Summary *

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	20,641 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

211.5 Total Operating Cost 240.3

Configuration -- semi-trailer and pup 8 axles

Manitoba

Commodity -- Bulk

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	56500 kg.	56500 kg.
	Average Payload	37450 kg.	37450 kg.
	Estimated Annual Quantity	28088 tonnes	28088 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 8426	\$ 8426
	Distance wage	\$ 40896	\$ 0
	Hourly wage	\$ 0	\$ 50705
	Wage burden	\$ 12824	\$ 15374

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
62,146	14.59	25.9	Tractor variable costs			
47,889	11.24	20.0	Driver	74,505	14.99	31.0
26,871	6.31	11.2	Fuel	47,889	9.63	20.0
2,795	0.66	1.2	Repairs	32,246	6.49	13.4
2,714	0.64	1.1	Cleaning	2,795	0.56	1.2
7,212	1.69	3.0	Transport	2,714	0.55	1.1
149,627	35.13	62.4	Tires	12,260	2.47	5.1
			Total tractor variable	172,409	34.69	71.8
			Tractor fixed costs			
17,792	4.18	7.4	Depreciation	17,792	3.58	7.4
3,528	0.83	1.5	Licences	3,528	0.71	1.5
21,320	5.01	8.9	Total tractor fixed	21,320	4.29	8.9
170,947	40.14	71.3	Tractor total	193,729	38.98	80.7
			Trailer variable costs			
15,732	3.69	6.6	Repairs	18,878	3.80	7.9
3,260	0.77	1.4	Cleaning	3,260	0.66	1.4
1,086	0.25	0.5	Transport	1,086	0.22	0.5
8,273	1.94	3.4	Tires	13,650	2.75	5.7
28,351	6.65	11.9	Total trailer variable	36,874	7.43	15.5
			Trailer fixed costs			
12,134	2.85	5.1	Depreciation	12,134	2.44	5.1
20			Licences	20		
12,154	2.85	5.1	Total trailer fixed	12,154	2.44	5.1
40,505	9.50	17.0	Trailer total	49,028	9.87	20.6
211,452	49.64	88.3	Total vehicle costs	242,757	48.85	101.3
8,690	2.04	3.6	Insurance costs	9,976	2.01	4.2
40,552	9.52	16.9	Admin. and interest	46,556	9.37	19.4
			Pickup and delivery			
28,966	6.80	12.1	Profit	33,254	6.69	13.9
289,660	68.00	120.9	Total operating cost	332,543	66.92	138.8

* Imperial Equivalent Summary *

* A. Annual distance travelled -- 149,136 mi. *

* Gross vehicle weight -- 124,560 lbs. *

* Average payload -- 82,562 lbs. *

* Estimated annual quantity -- 30,961 tons *

* B. Total Operating Cost per mile (cents/mile) *

* Paved roads Gravel roads *

* 194.6 Total Operating Cost 223.4 *

Configuration -- semi-trailer and pup 7 axles

Ontario

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
63500 kg.	63500 kg.
42860 kg.	42860 kg.
10715 tonnes	10715 tonnes
5.7 hrs.	6.6 hrs.
1420 hrs.	1657 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 4535	\$ 4535
\$ 16544	\$ 0
\$ 0	\$ 23845
\$ 5481	\$ 7379

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
26,560	18.70	33.2	Tractor variable costs			
16,946	11.93	21.2	Driver	35,759	21.58	44.7
11,400	8.03	14.3	Fuel	16,946	10.23	21.2
358	0.25	0.4	Repairs	13,680	8.26	17.1
1,954	1.38	2.4	Cleaning	358	0.22	0.4
2,545	1.79	3.2	Transport	1,954	1.18	2.4
59,763	42.08	74.7	Tires	4,327	2.61	5.4
			Total tractor variable	73,024	44.08	91.2
18,035	12.70	22.5	Tractor fixed costs			
2,722	1.92	3.4	Depreciation	18,035	10.88	22.5
20,757	14.62	25.9	Licences	2,722	1.64	3.4
			Total tractor fixed	20,757	12.52	25.9
80,520	56.70	100.6	Tractor total	93,781	56.60	117.1
7,084	4.99	8.9	Trailer variable costs			
1,791	1.26	2.2	Repairs	8,501	5.13	10.6
1,846	1.30	2.3	Cleaning	1,791	1.08	2.2
2,758	1.94	3.4	Transport	1,846	1.11	2.3
13,479	9.49	16.8	Tires	4,550	2.75	5.7
			Total trailer variable	16,688	10.07	20.8
12,247	8.62	15.3	Trailer fixed costs			
			Depreciation	12,247	7.39	15.3
12,247	8.62	15.3	Licences			
			Total trailer fixed	12,247	7.39	15.3
25,726	18.11	32.1	Trailer total	28,935	17.46	36.1
106,246	74.81	132.7	Total vehicle costs	122,716	74.06	153.2
4,366	3.07	5.5	Insurance costs	5,043	3.04	6.3
20,376	14.35	25.5	Admin. and interest	23,535	14.20	29.4
14,554	10.25	18.2	Pickup and delivery			
145,542	102.48	181.9	Profit	16,811	10.15	21.0
			Total operating cost	168,105	101.45	209.9

 Imperial Equivalent Summary

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 139,992 lbs.
 Average payload -- 94,489 lbs.
 Estimated annual quantity -- 11,811 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

292.7

Total Operating Cost 337.8

Configuration -- semi-trailer and pup 7 axles

Ontario

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63500 kg.	63500 kg.
Average Payload	42860 kg.	42860 kg.
Estimated Annual Quantity	21430 tonnes	21430 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2041 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 9070	\$ 9070
Distance wage	\$ 33088	\$ 0
Hourly wage	\$ 0	\$ 47689
Wage burden	\$ 10961	\$ 14757

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
53,119	18.70	33.2	Tractor variable costs	71,516	21.58	44.7
33,892	11.93	21.2	Driver	33,892	10.23	21.2
22,800	8.03	14.3	Fuel	27,360	8.26	17.1
717	0.25	0.4	Repairs	717	0.22	0.4
1,954	0.69	1.2	Cleaning	1,954	0.59	1.2
5,091	1.79	3.2	Transport	8,654	2.61	5.4
117,573	41.39	73.5	Tires	144,093	43.49	90.0
			Total tractor variable			
18,035	6.35	11.3	Tractor fixed costs	18,035	5.44	11.3
2,722	0.96	1.7	Depreciation	2,722	0.82	1.7
20,757	7.31	13.0	Licences	20,757	6.26	13.0
			Total tractor fixed			
138,330	48.70	86.5	Tractor total	164,850	49.75	103.0
			Trailer variable costs			
14,169	4.99	8.9	Repairs	17,002	5.13	10.6
3,583	1.26	2.2	Cleaning	3,583	1.08	2.2
1,846	0.65	1.2	Transport	1,846	0.56	1.2
5,515	1.94	3.4	Tires	9,100	2.75	5.7
25,113	8.84	15.7	Total trailer variable	31,531	9.52	19.7
			Trailer fixed costs			
12,247	4.31	7.7	Depreciation	12,247	3.70	7.7
12,247	4.31	7.7	Licences	12,247	3.70	7.7
			Total trailer fixed			
37,360	13.15	23.4	Trailer total	43,778	13.22	27.4
175,690	61.85	109.9	Total vehicle costs	208,628	62.97	130.4
7,220	2.54	4.5	Insurance costs	8,574	2.59	5.4
33,694	11.86	21.1	Admin. and interest	40,011	12.07	25.0
24,067	8.47	15.0	Pickup and delivery	28,579	8.62	17.9
240,671	84.72	150.5	Profit	285,792	86.25	170.7
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	139,992 lbs.
Average payload --	94,489 lbs.
Estimated annual quantity --	23,622 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

242.2 Total Operating Cost 207.6

Configuration -- semi-trailer and pup 7 axles

Ontario

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization
 Gross Vehicle Weight
 Average Payload
 Estimated Annual Quantity
 Trip Running Time
 Annual Running Hours

Paved Road	Gravel Road
63500 kg.	63500 kg.
42860 kg.	42860 kg.
32145 tonnes	32145 tonnes
5.7 hrs.	6.6 hrs.
4261 hrs.	4971 hrs.

B. Driver Costs
 Load - unload time cost
 Distance wage
 Hourly wage
 Wage burden

\$ 13605	\$ 13605
\$ 49632	\$ 0
\$ 0	\$ 71534
\$ 16442	\$ 22136

C. Total Operating Costs
 P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km. \$		Total Cost \$	Cost per Running Hour \$	Cost per km. \$
79,679	18.70	33.2	Tractor variable costs			
50,837	11.93	21.2	Driver	107,275	21.58	44.7
34,200	8.03	14.3	Fuel	50,837	10.23	21.2
1,075	0.25	0.4	Repairs	41,040	8.26	17.1
1,954	0.46	0.8	Cleaning	1,075	0.25	0.4
7,636	1.79	3.2	Transport	1,954	0.39	0.8
175,381	41.16	73.1	Tires	17,982	3.61	5.4
			Total tractor variable	215,163	43.29	89.6
18,035	4.23	7.5	Tractor fixed costs			
2,722	0.64	1.1	Depreciation	18,035	3.61	7.5
20,757	4.87	8.6	Licences	2,722	0.55	1.1
			Total tractor fixed	20,757	4.18	8.6
196,138	46.03	81.7	Tractor total	235,920	47.47	98.2
21,353	4.99	8.9	Trailer variable costs			
5,374	1.26	2.2	Repairs	25,503	5.12	10.6
1,846	0.43	0.8	Cleaning	5,374	1.08	2.2
8,273	1.94	3.4	Transport	1,846	0.37	0.8
36,746	8.62	15.3	Tires	13,650	2.75	5.7
			Total trailer variable	46,373	9.33	19.3
12,247	2.87	5.1	Trailer fixed costs			
12,247	2.87	5.1	Depreciation	12,247	2.46	5.1
			Licences			
48,993	11.49	20.4	Total trailer fixed	12,247	2.46	5.1
245,131	57.52	102.1	Trailer total	58,620	11.79	24.4
10,074	2.36	4.2	Total vehicle costs	294,540	59.26	122.6
47,011	11.03	19.6	Insurance costs	12,104	2.43	5.0
33,500	7.88	14.0	Admin. and interest	56,487	11.36	23.5
335,796	78.79	139.9	Pickup and delivery	40,348	8.12	16.8
			Profit	403,479	81.17	167.9
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 139,992 lbs.
 Average payload -- 94,489 lbs.
 Estimated annual quantity -- 35,433 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

225.1

Total Operating Cost 270.2

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	57500 kg.	57500 kg.
Average Payload	36860 kg.	36860 kg.
Estimated Annual Quantity	9215 tonnes	9215 tonnes
Trip Running Time	5.7 hrs.	6.8 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3472	\$ 3472
Distance wage	\$ 15624	\$ 21227
Hourly wage	\$ 8	\$ 8
Wage burden	\$ 5538	\$ 7163

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
24,634	17.34	30.8	Tractor variable costs	31,862	19.23	39.6
19,837	13.97	24.8	Driver	19,837	13.97	24.8
11,563	8.14	14.5	Fuel	11,563	8.14	14.5
299	0.21	0.4	Repairs	299	0.21	0.4
2,389	1.68	3.0	Cleaning	2,389	1.68	3.0
2,687	1.89	3.4	Transport	2,687	1.89	3.4
61,409	43.23	76.9	Tires	4,560	3.27	5.7
			Total tractor variable	72,838	45.95	91.6
18,198	12.81	22.7	Tractor fixed costs	18,198	12.81	22.7
2,756	1.94	3.4	Depreciation	2,756	1.94	3.4
20,954	14.75	26.1	Licences	20,954	14.75	26.1
			Total tractor fixed			
82,363	57.98	103.0	Tractor total	93,784	56.59	117.1
6,759	4.76	8.4	Trailer variable costs	8,110	4.89	10.1
1,791	1.26	2.2	Repairs	1,791	1.26	2.2
2,497	1.76	3.1	Cleaning	2,497	1.76	3.1
2,899	2.04	3.6	Transport	2,899	2.04	3.6
13,946	9.82	17.3	Tires	4,783	3.42	6.0
			Total trailer variable	17,181	10.37	21.4
12,361	8.78	15.5	Trailer fixed costs	12,361	8.78	15.5
114	0.08	0.1	Depreciation	114	0.08	0.1
12,475	8.78	15.6	Licences	12,475	8.78	15.6
			Total trailer fixed			
26,421	18.66	32.9	Trailer total	29,656	17.98	37.0
108,784	76.58	135.9	Total vehicle costs	123,440	74.49	154.1
4,471	3.15	5.6	Insurance costs	5,073	3.56	6.3
20,862	14.69	26.1	Admin. and interest	23,073	14.29	29.6
14,982	10.49	18.6	Pickup and delivery	16,910	10.20	21.1
149,019	104.91	186.2	Profit	169,096	102.04	211.1
			Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	126,765 lbs.
Average payload --	81,291 lbs.
Estimated annual quantity --	10,158 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

299.7 Total Operating Cost 139.7

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	57500 kg.	57500 kg.
Average Payload	36860 kg.	36860 kg.
Estimated Annual Quantity	18430 tonnes	18430 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 6944	\$ 6944
Distance wage	\$ 31248	\$ 0
Hourly wage	\$ 0	\$ 42453
Wage Burden	\$ 11076	\$ 14325

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
49,268	17.34	38.8	Tractor variable costs			
38,674	13.97	24.8	Driver	63,722	19.23	39.8
23,126	8.14	14.5	Fuel	39,674	11.97	24.8
597	0.21	0.4	Repairs	27,751	8.37	17.3
389	0.84	1.5	Cleaning	597	0.18	0.4
174	0.09	0.4	Transport	2,389	0.72	1.5
120,428	42.39	73.4	Tires	9,135	2.76	5.7
			Total tractor variable	143,268	43.23	89.5
18,198	6.41	11.4	Tractor fixed costs			
2,756	0.97	1.7	Depreciation	18,198	5.49	11.4
20,954	7.38	13.1	Licences	2,756	0.83	1.7
			Total tractor fixed	20,954	6.32	13.1
141,382	49.77	88.5	Tractor total	164,222	49.55	102.6
12,361	4.35	7.7	Trailer variable costs			
3,583	1.26	2.2	Repairs	16,221	4.89	10.1
497	0.88	1.6	Cleaning	3,583	1.08	2.2
798	2.84	5.6	Transport	2,497	0.75	1.6
20,395	8.94	19.8	Tires	9,567	2.89	6.0
			Total trailer variable	31,868	9.61	19.9
12,361	4.35	7.7	Trailer fixed costs			
114	0.04	0.1	Depreciation	12,361	3.73	7.7
12,475	4.39	7.8	Licences	114	0.03	0.1
			Total trailer fixed	12,475	3.76	7.8
37,870	13.33	23.6	Trailer total	44,343	13.37	27.7
179,252	63.10	112.1	Total vehicle costs	208,565	62.92	130.3
7,366	2.59	4.6	Insurance costs	8,571	2.59	5.4
34,377	12.10	21.5	Admin. and interest	39,999	12.07	25.0
24,555	8.64	15.3	Pickup and delivery			
245,558	86.43	153.5	Profit	28,570	8.62	17.9
			Total operating cost	285,705	86.20	178.6

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	126,765 lbs.
Average payload --	81,262 lbs.
Estimated annual quantity --	20,315 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

247.0

Total Operating Cost 287.4

Configuration -- semi-trailer and pup 8 axles

Quebec

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	57500 kg.	57500 kg.
Average Payload	36860 kg.	36860 kg.
Estimated Annual Quantity	27645 tonnes	27645 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 10416	\$ 10416
Distance wage	\$ 46872	\$ 0
Hourly wage	\$ 0	\$ 63680
Wage burden	\$ 16613	\$ 21488

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
73,901	17.34	30.8	Tractor variable costs			
59,511	13.97	24.0	Driver	95,584	19.23	39.8
34,688	8.14	14.5	Fuel	59,511	11.97	24.0
896	0.21	0.4	Repairs	41,626	0.37	17.3
2,389	0.56	1.0	Cleaning	896	0.18	0.4
8,061	1.89	3.4	Transport	2,389	0.48	1.0
179,446	42.11	74.9	Tires	13,703	2.76	5.7
			Total tractor variable	213,709	42.99	89.0
18,198	4.27	7.6	Tractor fixed costs			
2,756	0.65	1.1	Depreciation	18,198	3.66	7.6
20,954	4.92	8.7	Licences	2,756	0.55	1.1
			Total tractor fixed	20,954	4.21	8.7
200,400	47.03	83.6	Tractor total	234,663	47.20	97.7
20,276	4.76	8.4	Trailer variable costs			
5,374	1.26	2.2	Repairs	24,331	4.89	10.1
2,497	0.59	1.0	Cleaning	5,374	1.08	2.2
8,697	2.04	3.6	Transport	2,497	0.50	1.0
36,844	8.65	15.2	Tires	14,350	2.89	6.0
			Total trailer variable	46,552	9.36	19.3
12,361	2.90	5.2	Trailer fixed costs			
114	0.03		Depreciation	12,361	2.49	5.2
12,475	2.93	5.2	Licences	114	0.02	
			Total trailer fixed	12,475	2.51	5.2
49,319	11.58	20.4	Trailer total	59,027	11.87	24.5
249,719	58.61	104.0	Total vehicle costs	293,690	59.07	122.2
10,262	2.41	4.3	Insurance costs	12,069	2.43	5.0
47,891	11.24	20.0	Admin. and interest	56,324	11.33	23.5
34,208	8.03	14.3	Pickup and delivery			
342,080	80.29	142.6	Profit	40,231	8.09	16.8
			Total operating cost	402,314	80.92	167.5

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	126,765 lbs.
Average payload --	81,262 lbs.
Estimated annual quantity --	30,473 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

229.5 Total Operating Cost 269.6

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	9363 tonnes	9363 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2957	\$ 2957
Distance wage	\$ 11888	\$ 0
Hourly wage	\$ 0	\$ 17797
Wage burden	\$ 3162	\$ 4421

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
18,007	12.68	22.5	Tractor variable costs			
15,475	10.90	19.3	Driver	25,175	15.19	31.5
11,107	7.82	13.9	Fuel	15,475	9.34	19.3
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
49,286	34.71	61.6	Tires	3,888	2.35	4.9
			Total tractor variable	60,276	36.37	75.4
18,525	13.04	23.2	Tractor fixed costs			
1,878	1.32	2.3	Depreciation	18,525	11.18	23.2
20,403	14.36	25.5	Licences	1,878	1.13	2.3
			Total tractor fixed	20,403	12.31	25.5
69,689	49.07	87.1	Tractor total	80,679	48.68	100.9
6,293	4.43	7.9	Trailer variable costs			
776	0.55	1.0	Repairs	7,551	4.56	9.4
2,497	1.76	3.1	Cleaning	776	0.47	1.0
3,025	2.13	3.8	Transport	2,497	1.51	3.1
12,591	8.87	15.8	Tires	4,991	3.01	6.2
			Total trailer variable	15,815	9.55	19.7
12,587	8.86	15.7	Trailer fixed costs			
20	0.01	0.0	Depreciation	12,587	7.60	15.7
12,607	8.87	15.7	Licences	20	0.01	0.0
			Total trailer fixed	12,607	7.61	15.7
25,198	17.74	31.5	Trailer total	28,422	17.16	35.4
94,887	66.81	118.6	Total vehicle costs	109,101	65.84	136.3
3,900	2.75	4.9	Insurance costs	4,484	2.71	5.6
10,198	12.81	22.7	Admin. and interest	20,924	12.63	26.2
12,998	9.15	16.2	Pickup and delivery			
129,983	91.52	162.4	Profit	14,946	9.02	18.7
			Total operating cost	149,455	90.20	186.8

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	10,321 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

261.4

Total Operating Cost 300.6

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	56500 kg.	56500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	18725 tonnes	18725 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5915	\$ 5915
Distance wage	\$ 23776	\$ 0
Hourly wage	\$ 0	\$ 35593
Wage burden	\$ 6324	\$ 8841

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
36,015	12.68	22.5	Tractor variable costs			
30,950	10.90	19.3	Driver	50,349	15.19	31.5
22,214	7.82	13.9	Fuel	30,950	9.34	19.3
478	0.17	0.3	Repairs	26,656	8.04	16.7
2,171	0.76	1.4	Cleaning	478	0.14	0.3
4,574	1.61	2.9	Transport	2,171	0.66	1.4
96,402	33.94	60.3	Tires	7,776	2.35	4.9
			Total tractor variable	118,380	35.72	74.1
18,525	6.52	11.6	Tractor fixed costs			
1,878	0.66	1.2	Depreciation	18,525	5.59	11.6
20,403	7.18	12.8	Licences	1,878	0.57	1.2
			Total tractor fixed	20,403	6.16	12.8
116,805	41.12	73.1	Tractor total	138,783	41.88	86.9
12,586	4.43	7.9	Trailer variable costs			
1,553	0.53	1.0	Repairs	15,103	4.56	9.4
2,497	0.88	1.6	Cleaning	1,553	0.47	1.0
6,050	2.13	3.8	Transport	2,497	0.75	1.6
22,686	7.99	14.3	Tires	9,983	3.01	6.2
			Total trailer variable	29,136	8.79	18.2
12,587	4.43	7.9	Trailer fixed costs			
20	0.01		Depreciation	12,587	3.80	7.9
12,607	4.44	7.9	Licences	20	0.01	
			Total trailer fixed	12,607	3.81	7.9
35,293	12.43	22.2	Trailer total	41,743	12.60	26.1
152,098	53.55	95.3	Total vehicle costs	180,526	54.48	113.0
6,251	2.20	3.9	Insurance costs	7,419	2.24	4.6
29,169	10.27	18.2	Admin. and interest	34,622	10.45	21.6
20,835	7.33	13.0	Pickup and delivery	24,730	7.46	15.5
208,353	73.35	130.4	Profit			
			Total operating cost	247,297	74.63	154.7

Imperial Equivalent Summary

A. Annual distance travelled --	99,424 mi.
Gross vehicle weight --	124,500 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	20,641 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

289.9

Total Operating Cost

249.0

Configuration -- semi-trailer and pup 7 axles

New Brunswick

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		56500 kg.	56500 kg.
Average Payload		37450 kg.	37450 kg.
Estimated Annual Quantity		28088 tonnes	28088 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		4261 hrs.	4971 hrs.
B. Driver Costs			
Load - unload time cost		\$ 8872	\$ 8872
Distance wage		\$ 35664	\$ 0
Hourly wage		\$ 0	\$ 53390
Wage burden		\$ 9486	\$ 13262

C. Total Operating Costs
Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
54,022	12.68	22.5	Tractor variable costs			
46,425	10.90	19.3	Driver	75,524	15.19	31.5
33,320	7.82	13.9	Fuel	46,425	9.34	19.3
717	0.17	0.3	Repairs	39,985	8.04	16.7
2,171	0.51	0.9	Cleaning	717	0.14	0.3
6,862	1.61	2.9	Transport	2,171	0.44	0.9
143,517	33.69	59.8	Tires	11,665	2.35	4.9
			Total tractor variable	176,487	35.50	73.6
18,525	4.35	7.7	Tractor fixed costs			
1,878	0.44	0.8	Depreciation	18,525	3.73	7.7
20,403	4.79	8.5	Licences	1,878	0.38	0.8
			Total tractor fixed	20,403	4.11	8.5
163,920	38.48	68.3	Tractor total	196,890	39.61	82.1
18,878	4.43	7.9	Trailer variable costs			
2,329	0.55	1.0	Repairs	22,654	4.56	9.4
2,497	0.59	1.0	Cleaning	2,329	0.47	1.0
9,075	2.13	3.8	Transport	2,497	0.50	1.0
32,779	7.70	13.7	Tires	14,974	3.01	6.2
			Total trailer variable	42,454	8.54	17.6
12,587	2.95	5.2	Trailer fixed costs			
20			Depreciation	12,587	2.53	5.2
12,607	2.95	5.2	Licences	20		
			Total trailer fixed	12,607	2.53	5.2
45,386	10.65	18.9	Trailer total	55,061	11.07	22.8
209,306	49.13	87.2	Total vehicle costs	251,951	50.68	104.9
8,602	2.02	3.6	Insurance costs	10,354	2.08	4.3
40,141	9.42	16.7	Admin. and interest	48,319	9.72	20.1
28,672	6.73	11.9	Pickup and delivery			
286,721	67.30	119.4	Profit	34,514	6.94	14.4
			Total operating cost	345,138	69.42	143.7

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	124,560 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	30,961 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

192.2

Total Operating Cost 231.3

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	50000 kg.	50000 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	9363 tonnes	9363 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2957	\$ 2957
Distance wage	\$ 11888	\$ 0
Hourly wage	\$ 0	\$ 17797
Wage burden	\$ 3162	\$ 4421

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
18,007	12.68	22.5	Tractor variable costs			
15,654	11.02	19.6	Driver	25,175	15.19	31.5
11,107	7.82	13.9	Fuel	15,654	9.45	19.6
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
49,465	34.83	61.9	Tires	3,888	2.35	4.9
			Total tractor variable	60,455	36.48	75.7
			Tractor fixed costs			
18,362	12.93	23.0	Depreciation	18,362	11.08	23.0
1,600	1.13	2.0	Licences	1,600	0.97	2.0
19,962	14.06	25.0	Total tractor fixed	19,962	12.05	25.0
69,427	48.89	86.9	Tractor total	80,417	48.53	100.7
			Trailer variable costs			
6,293	4.43	7.9	Repairs	7,551	4.56	9.4
776	0.55	1.0	Cleaning	776	0.47	1.0
2,497	1.76	3.1	Transport	2,497	1.51	3.1
3,025	2.13	3.8	Tires	4,991	3.01	6.2
12,591	8.87	15.8	Total trailer variable	15,815	9.55	19.7
			Trailer fixed costs			
12,474	8.78	15.6	Depreciation	12,474	7.53	15.6
50	0.04	0.1	Licences	50	0.03	0.1
12,524	8.82	15.7	Total trailer fixed	12,524	7.56	15.7
25,115	17.69	31.5	Trailer total	28,339	17.11	35.4
94,542	66.58	118.4	Total vehicle costs	108,756	65.64	136.1
3,885	2.74	4.9	Insurance costs	4,469	2.70	5.6
18,131	12.77	22.7	Admin. and interest	20,858	12.59	26.1
			Pickup and delivery			
12,951	9.12	16.2	Profit	14,898	8.99	18.6
129,509	91.21	162.2	Total operating cost	148,981	89.92	186.4

 * Imperial Equivalent Summary *

A. Annual distance travelled -- 49,712 mi.
 Gross vehicle weight -- 110,230 lbs.
 Average payload -- 82,562 lbs.
 Estimated annual quantity -- 10,321 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

261.0

Total Operating Cost 300.0

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	50000 kg.	50000 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	18725 tonnes	18725 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5915	\$ 5915
Distance wage	\$ 23776	\$ 0
Hourly wage	\$ 0	\$ 35593
Wage burden	\$ 6324	\$ 8841

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
36,015	12.68	22.5	Tractor variable costs			
31,309	11.02	19.6	Driver	50,349	15.19	31.5
22,214	7.82	13.9	Fuel	31,309	9.45	19.6
478	0.17	0.3	Repairs	26,656	8.04	16.7
2,171	0.76	1.4	Cleaning	478	0.14	0.3
4,574	1.61	2.9	Transport	2,171	0.66	1.4
96,761	34.06	60.6	Tires	7,776	2.35	4.9
			Total tractor variable	118,739	35.83	74.4
			Tractor fixed costs			
18,362	6.46	11.5	Depreciation	18,362	5.54	11.5
1,600	0.56	1.0	Licences	1,600	0.48	1.0
19,962	7.02	12.5	Total tractor fixed	19,962	6.02	12.5
116,723	41.08	73.1	Tractor total	138,701	41.85	86.9
			Trailer variable costs			
12,586	4.43	7.9	Repairs	15,103	4.56	9.4
1,553	0.55	1.0	Cleaning	1,553	0.47	1.0
2,497	0.88	1.6	Transport	2,497	0.75	1.6
6,050	2.13	3.8	Tires	9,983	3.01	6.2
22,686	7.99	14.3	Total trailer variable	29,136	8.79	18.2
			Trailer fixed costs			
12,474	4.39	7.8	Depreciation	12,474	3.76	7.8
50	0.02		Licences	50	0.02	
12,524	4.41	7.8	Total trailer fixed	12,524	3.78	7.8
35,210	12.40	22.1	Trailer total	41,660	12.57	26.0
151,933	53.48	95.2	Total vehicle costs	180,361	54.42	112.9
6,244	2.20	3.9	Insurance costs	7,412	2.24	4.6
29,138	10.26	18.2	Admin. and interest	34,590	10.44	21.6
20,813	7.33	13.0	Pickup and delivery			
208,128	73.27	130.3	Profit	24,707	7.46	15.4
			Total operating cost	247,070	74.56	154.5

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 Imperial Equivalent Summary

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 110,230 lbs.
 Average payload -- 82,562 lbs.
 Estimated annual quantity -- 20,641 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

209.7

Total Operating Cost 248.6

Configuration -- semi-trailer and pup 7 axles

Nova Scotia

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	50000 kg.	50000 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	28088 tonnes	28088 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 8872	\$ 8872
Distance wage	\$ 35664	\$ 0
Hourly wage	\$ 0	\$ 53390
Wage burden	\$ 9486	\$ 13262

C. Total Operating Costs

Paved Roads			Gravel Roads		
Total Cost \$	Cost per Running Hour \$	Cost per km.	Total Cost \$	Cost per Running Hour \$	Cost per km.
54,022	12.68	22.5	Tractor variable costs		
46,963	11.02	19.6	Driver	75,524	15.19
33,320	7.82	13.9	Fuel	46,963	9.45
717	0.17	0.3	Repairs	39,985	8.04
2,171	0.51	0.9	Cleaning	717	0.14
6,862	1.61	2.9	Transport	2,171	0.44
144,055	33.81	60.1	Tires	11,665	2.35
			Total tractor variable	177,025	35.61
			Tractor fixed costs		
18,362	4.31	7.7	Depreciation	18,362	3.69
1,600	0.38	0.7	Licences	1,600	0.32
19,962	4.69	8.4	Total tractor fixed	19,962	4.01
164,017	38.50	68.5	Tractor total	196,987	39.62
			Trailer variable costs		
18,878	4.43	7.9	Repairs	22,654	4.56
2,329	0.55	1.0	Cleaning	2,329	0.47
2,497	0.59	1.0	Transport	2,497	0.50
9,075	2.13	3.8	Tires	14,974	3.01
32,779	7.70	13.7	Total trailer variable	42,454	8.54
			Trailer fixed costs		
12,474	2.93	5.2	Depreciation	12,474	2.51
50	0.01		Licences	50	0.01
12,524	2.94	5.2	Total trailer fixed	12,524	2.52
45,303	10.64	18.9	Trailer total	54,978	11.06
209,320	49.14	87.4	Total vehicle costs	251,965	50.68
8,602	2.02	3.6	Insurance costs	10,355	2.08
40,144	9.42	16.7	Admin. and interest	48,322	9.72
28,674	6.73	11.9	Pickup and delivery	34,516	6.94
286,740	67.31	119.6	Profit		
			Total operating cost	345,158	69.42

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	110,230 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	30,961 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	Gravel roads
192.5	231.6
Total Operating Cost	

Configuration -- semi-trailer and pup 8 axles

P.E.I.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	9363 tonnes	9363 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2431	\$ 2431
Distance wage	\$ 9992	\$ 0
Hourly wage	\$ 0	\$ 14632
Wage burden	\$ 2646	\$ 3634

C. Total Operating Costs
P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
15,069	10.61	18.8	Tractor variable costs			
15,471	10.89	19.3	Driver	20,697	12.49	25.9
11,107	7.82	13.9	Fuel	15,471	9.34	19.3
239	0.17	0.3	Repairs	13,328	8.04	16.7
2,171	1.53	2.7	Cleaning	239	0.14	0.3
2,287	1.61	2.9	Transport	2,171	1.31	2.7
46,344	32.63	57.9	Tires	3,888	2.35	4.9
			Total tractor variable	55,794	33.67	69.8
			Tractor fixed costs			
18,457	12.99	23.1	Depreciation	18,457	11.14	23.1
2,040	1.44	2.6	Licences	2,040	1.23	2.6
20,497	14.43	25.7	Total tractor fixed	20,497	12.37	25.7
66,841	47.06	83.6	Tractor total	76,291	46.04	95.5
			Trailer variable costs			
6,293	4.43	7.9	Repairs	7,551	4.56	9.4
776	0.55	1.0	Cleaning	776	0.47	1.0
2,497	1.76	3.1	Transport	2,497	1.51	3.1
3,025	2.13	3.8	Tires	4,991	3.01	6.2
12,591	8.87	15.8	Total trailer variable	15,815	9.55	19.7
			Trailer fixed costs			
12,474	8.78	15.6	Depreciation	12,474	7.53	15.6
50	0.04	0.1	Licences	50	0.03	0.1
12,524	8.82	15.7	Total trailer fixed	12,524	7.56	15.7
25,115	17.69	31.5	Trailer total	28,339	17.11	35.4
91,956	64.75	115.1	Total vehicle costs	104,630	63.15	130.9
3,779	2.66	4.7	Insurance costs	4,300	2.59	5.4
17,636	12.42	22.0	Admin. and interest	20,066	12.11	25.1
12,597	8.87	15.7	Pickup and delivery			
125,968	88.70	157.5	Profit	14,333	8.65	17.9
			Total operating cost	143,329	86.50	179.3

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	137,788 lbs.
Average payload --	82,562 lbs.
Estimated annual quantity --	10,321 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

253.5 Total Operating Cost 288.5

Configuration -- semi-trailer and pup 8 axles

P.E.I.

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	37450 kg.	37450 kg.
Estimated Annual Quantity	18725 tonnes	18725 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 4863	\$ 4863
Distance wage	\$ 19984	\$ 0
Hourly wage	\$ 0	\$ 29263
Wage burden	\$ 5292	\$ 7269

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
30,139	10.61	18.8	Tractor variable costs			
30,943	10.89	19.3	Driver	41,395	12.49	25.9
22,214	7.82	13.9	Fuel	30,943	9.34	19.3
478	0.17	0.3	Repairs	26,656	8.04	16.7
2,171	0.76	1.4	Cleaning	478	0.14	0.3
4,574	1.61	2.9	Transport	2,171	0.66	1.4
90,519	31.86	56.6	Tires	7,776	2.35	4.9
			Total tractor variable	109,419	33.02	68.5
			Tractor fixed costs			
18,457	6.50	11.5	Depreciation	18,457	5.57	11.5
2,040	0.72	1.3	Licences	2,040	0.62	1.3
20,497	7.22	12.8	Total tractor fixed	20,497	6.19	12.8
111,016	39.08	69.4	Tractor total	129,916	39.21	81.3
			Trailer variable costs			
12,586	4.43	7.9	Repairs	15,103	4.56	9.4
1,553	0.55	1.0	Cleaning	1,553	0.47	1.0
2,497	0.88	1.6	Transport	2,497	0.75	1.6
6,050	2.13	3.8	Tires	9,983	3.01	6.2
22,686	7.99	14.3	Total trailer variable	29,136	8.79	18.2
			Trailer fixed costs			
12,474	4.39	7.8	Depreciation	12,474	3.76	7.8
50	0.02		Licences	50	0.02	
12,524	4.41	7.8	Total trailer fixed	12,524	3.78	7.8
35,210	12.40	22.1	Trailer total	41,660	12.57	26.0
146,226	51.48	91.5	Total vehicle costs	171,576	51.78	107.3
6,009	2.12	3.8	Insurance costs	7,051	2.13	4.4
28,043	9.87	17.5	Admin. and interest	32,905	9.93	20.6
20,031	7.05	12.5	Pickup and delivery			
200,309	70.52	125.3	Profit	23,503	7.09	14.7
			Total operating cost	235,035	70.93	147.0

* Imperial Equivalent Summary *

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 137,788 lbs.
 Average payload -- 82,562 lbs.
 Estimated annual quantity -- 20,641 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

201.6

Total Operating Cost 236.6

Configuration -- semi-trailer and pup 8 axles

P.S.I.

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization		Paved Road	Gravel Road
Gross Vehicle Weight		62500 kg.	62500 kg.
Average Payload		37450 kg.	37450 kg.
Estimated Annual Quantity		28088 tonnes	28088 tonnes
Trip Running Time		5.7 hrs.	6.6 hrs.
Annual Running Hours		4261 hrs.	4971 hrs.
B. Driver Costs			
Load - unload time cost		\$ 7294	\$ 7294
Distance wage		\$ 29976	\$ 0
Hourly wage		\$ 0	\$ 43895
Wage burden		\$ 7939	\$ 10903

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km.			
			Total Cost \$	Cost per Running Hour \$	Cost per km.
45,209	10.61	18.8	Tractor variable costs		
46,414	10.89	19.3	Driver	62,092	12.49
33,320	7.82	13.9	Fuel	46,414	9.34
717	0.17	0.3	Repairs	39,985	8.04
2,171	0.51	0.9	Cleaning	717	0.14
6,862	1.61	2.9	Transport	2,171	0.44
134,693	31.61	56.1	Tires	11,665	2.35
			Total tractor variable	163,044	32.80
			Tractor fixed costs		
18,457	4.33	7.7	Depreciation	18,457	3.71
2,040	0.48	0.9	Licences	2,040	0.41
20,497	4.81	8.6	Total tractor fixed	20,497	4.12
155,190	36.42	64.7	Tractor total	183,541	36.92
			Trailer variable costs		
18,878	4.43	7.9	Repairs	22,654	4.56
2,329	0.55	1.0	Cleaning	2,329	0.47
2,497	0.59	1.0	Transport	2,497	0.50
9,075	2.13	3.8	Tires	14,974	3.01
32,779	7.70	13.7	Total trailer variable	42,454	8.54
			Trailer fixed costs		
12,474	2.93	5.2	Depreciation	12,474	2.51
50	0.01		Licences	50	0.01
12,524	2.94	5.2	Total trailer fixed	12,524	2.52
45,303	10.64	18.9	Trailer total	54,978	11.06
200,493	47.06	83.6	Total vehicle costs	238,519	47.98
8,239	1.93	3.4	Insurance costs	9,802	1.97
38,451	9.02	16.0	Admin. and interest	45,743	9.20
27,465	6.45	11.4	Pickup and delivery		
274,648	64.46	114.4	Profit	32,674	6.57
			Total operating cost	326,738	65.72

Imperial Equivalent Summary			
A.	Annual distance travelled --	149,136 mi.	
	Gross vehicle weight --	137,788 lbs.	
	Average payload --	82,562 lbs.	
	Estimated annual quantity --	30,961 tons	
B.	Total Operating Cost per mile (cents/mile)		
	P a v e d r o a d s	G r a v e l r o a d s	
	184.1	Total Operating Cost	219.2

Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Bulk

Annual distance -- 80000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	62500 kg.	62500 kg.
	Average Payload	35860 kg.	35860 kg.
	Estimated Annual Quantity	8965 tonnes	8965 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	1420 hrs.	1657 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 2998	\$ 2998
	Distance wage	\$ 11800	\$ 0
	Hourly wage	\$ 0	\$ 18840
	Wage burden	\$ 3152	\$ 4652

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
17,950	12.64	22.4	Driver	26,490	15.99	33.1
17,448	12.28	21.8	Fuel	17,448	10.53	21.8
10,569	7.44	13.2	Repairs	12,683	7.65	15.9
478	0.34	0.6	Cleaning	478	0.29	0.6
2,063	1.45	2.6	Transport	2,063	1.24	2.6
2,435	1.71	3.0	Tires	4,139	2.50	5.2
50,943	35.86	63.6	Total tractor variable	63,301	38.20	79.2
			Tractor fixed costs			
18,784	13.23	23.5	Depreciation	18,784	11.34	23.5
2,178	1.53	2.7	Licences	2,178	1.31	2.7
20,962	14.76	26.2	Total tractor fixed	20,962	12.65	26.2
71,905	50.62	89.8	Tractor total	84,263	50.85	105.4
			Trailer variable costs			
7,084	4.99	8.9	Repairs	8,501	5.13	10.6
597	0.42	0.7	Cleaning	597	0.36	0.7
2,497	1.76	3.1	Transport	2,497	1.51	3.1
3,025	2.13	3.8	Tires	4,991	3.01	6.2
13,203	9.30	16.5	Total trailer variable	16,586	10.01	20.6
			Trailer fixed costs			
12,701	8.94	15.9	Depreciation	12,701	7.66	15.9
50	0.04	0.1	Licences	50	0.03	0.1
12,751	8.98	16.0	Total trailer fixed	12,751	7.69	16.0
25,954	18.28	32.5	Trailer total	29,337	17.70	36.6
97,859	68.90	122.3	Total vehicle costs	113,600	68.55	142.0
4,022	2.83	5.0	Insurance costs	4,668	2.82	5.0
18,767	13.21	23.5	Admin. and interest	21,786	13.15	27.2
			Pickup and delivery			
13,405	9.44	16.8	Profit	15,562	9.39	19.5
134,053	94.38	167.6	Total operating cost	155,616	93.91	194.5

Imperial Equivalent Summary

A.	Annual distance travelled --	49,712 mi.
	Gross vehicle weight --	137,788 lbs.
	Average payload --	79,057 lbs.
	Estimated annual quantity --	9,882 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

269.7 Total Operating Cost 313.0

Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	35860 kg.	35860 kg.
Estimated Annual Quantity	17930 tonnes	17930 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 5996	\$ 5996
Distance wage	\$ 23600	\$ 0
Hourly wage	\$ 0	\$ 37681
Wage burden	\$ 6304	\$ 9303

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
35,900	12.64	22.4	Tractor variable costs			
34,896	12.28	21.8	Driver	52,980	15.99	33.1
21,139	7.44	13.2	Fuel	34,896	10.53	21.8
955	0.34	0.6	Repairs	25,367	7.65	15.9
2,063	0.73	1.3	Cleaning	955	0.29	0.6
4,870	1.71	3.0	Transport	2,063	0.62	1.3
99,823	35.14	62.3	Tires	0,270	2.50	5.2
			Total tractor variable	124,539	37.58	77.9
			Tractor fixed costs			
18,784	6.61	11.7	Depreciation	18,784	5.67	11.7
2,178	0.77	1.4	Licences	2,178	0.66	1.4
20,962	7.38	13.1	Total tractor fixed	20,962	6.33	13.1
120,785	42.52	75.4	Tractor total	145,501	43.91	91.0
			Trailer variable costs			
14,169	4.99	8.9	Repairs	17,002	5.13	10.6
1,194	0.42	0.7	Cleaning	1,194	0.36	0.7
2,497	0.88	1.6	Transport	2,497	0.75	1.6
6,050	2.13	3.8	Tires	9,983	3.01	6.2
23,910	8.42	15.0	Total trailer variable	30,676	9.25	19.1
			Trailer fixed costs			
12,701	4.47	7.9	Depreciation	12,701	3.83	7.9
50	0.02		Licences	50	0.02	
12,751	4.49	7.9	Total trailer fixed	12,751	3.85	7.9
36,661	12.91	22.9	Trailer total	43,427	13.10	27.0
157,446	55.43	98.3	Total vehicle costs	188,928	57.01	118.0
6,470	2.28	4.0	Insurance costs	7,764	2.34	4.9
30,195	10.63	18.9	Admin. and interest	36,233	10.93	22.6
21,568	7.59	13.5	Pickup and delivery			
215,679	75.93	134.7	Profit	25,000	7.81	16.2
			Total operating cost	258,805	78.09	161.7

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Imperial Equivalent Summary

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A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 137,788 lbs.
 Average payload -- 79,057 lbs.
 Estimated annual quantity -- 19,764 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

216.8 Total Operating Cost 260.2

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Configuration -- semi-trailer and pup 8 axles

Newfoundland

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	62500 kg.	62500 kg.
Average Payload	35860 kg.	35860 kg.
Estimated Annual Quantity	26895 tonnes	26895 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 8994	\$ 8994
Distance wage	\$ 35400	\$ 0
Hourly wage	\$ 0	\$ 56521
Wage burden	\$ 9456	\$ 13955

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
53,850	12.64	22.4	Tractor variable costs	79,470	15.99	33.1
52,344	12.28	21.8	Driver	52,344	10.53	21.8
31,708	7.44	13.2	Fuel	38,050	7.65	15.9
1,433	0.34	0.6	Repairs	1,433	0.29	0.6
2,063	0.48	0.9	Cleaning	2,063	0.41	0.9
7,304	1.71	3.0	Transport	12,417	2.50	5.2
148,702	34.89	61.9	Tires	185,777	37.37	77.5
			Total tractor variable			
18,784	4.41	7.8	Tractor fixed costs	18,784	3.78	7.8
2,178	0.51	0.9	Depreciation	2,178	0.44	0.9
20,962	4.92	8.7	Licences	20,962	4.22	8.7
			Total tractor fixed			
169,664	39.81	70.6	Tractor total	206,739	41.59	86.2
21,253	4.99	8.9	Trailer variable costs	25,503	5.13	10.6
1,791	0.42	0.7	Repairs	1,791	0.36	0.7
2,497	0.59	1.0	Cleaning	2,497	0.50	1.0
9,075	2.13	3.8	Transport	14,974	3.01	6.2
34,616	8.13	14.4	Tires	44,765	9.00	18.5
			Total trailer variable			
12,701	2.98	5.3	Trailer fixed costs	12,701	2.55	5.3
50	0.01		Depreciation	50	0.01	
12,751	2.99	5.3	Licences	12,751	2.56	5.3
			Total trailer fixed			
47,367	11.12	19.7	Trailer total	57,516	11.56	23.8
217,031	50.93	90.3	Total vehicle costs	264,255	53.15	110.0
8,919	2.09	3.7	Insurance costs	10,860	2.18	4.5
41,622	9.77	17.3	Admin. and interest	50,679	10.19	21.1
29,730	6.98	12.4	Pickup and delivery	36,199	7.28	15.1
297,302	69.77	123.7	Profit	361,993	72.80	150.7
			Total operating cost			

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 Imperial Equivalent Summary

A. Annual distance travelled -- 149,136 mi.
 Gross vehicle weight -- 137,788 lbs.
 Average payload -- 79,057 lbs.
 Estimated annual quantity -- 29,646 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

199.1 Total Operating Cost 242.5

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Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	55000 kg.	55000 kg.
Average Payload	33950 kg.	33950 kg.
Estimated Annual Quantity	8488 tonnes	8488 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 2664	\$ 2664
Distance wage	\$ 13776	\$ 0
Hourly wage	\$ 0	\$ 17681
Wage burden	\$ 4192	\$ 5188

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
20,632	14.53	25.8	Tractor variable costs	25,533	15.41	31.9
21,270	14.98	26.6	Driver	21,270	12.84	26.6
11,563	8.14	14.5	Fuel	13,875	8.37	17.3
597	0.42	0.7	Repairs	597	0.36	0.7
3,149	2.22	3.9	Cleaning	3,149	1.90	3.9
3,612	2.54	4.5	Transport	6,141	3.71	7.7
60,823	42.83	76.8	Tires	70,565	42.59	88.1
			Total tractor variable			
16,600	11.69	20.8	Tractor fixed costs	16,600	10.02	20.8
1,230	0.87	1.5	Depreciation	1,230	0.74	1.5
17,830	12.56	22.3	Licences	17,830	10.76	22.3
			Total tractor fixed			
78,653	55.39	98.3	Tractor total	88,395	53.35	110.4
			Trailer variable costs			
8,061	5.68	10.1	Repairs	9,674	5.84	12.1
1,075	0.76	1.3	Cleaning	1,075	0.65	1.3
2,823	1.99	3.5	Transport	2,823	1.70	3.5
6,610	4.65	8.3	Tires	10,906	6.58	13.6
18,569	13.08	23.2	Total trailer variable	24,478	14.77	30.5
			Trailer fixed costs			
11,340	7.98	14.2	Depreciation	11,340	6.84	14.2
56	0.04	0.1	Licences	56	0.03	0.1
11,396	8.02	14.3	Total trailer fixed	11,396	6.87	14.3
			Trailer total	35,874	21.64	44.8
29,965	21.10	37.5	Total vehicle costs	124,269	74.99	155.2
108,618	76.49	135.8	Insurance costs	5,107	3.08	6.4
4,464	3.14	5.6	Admin. and interest	23,832	14.38	29.8
20,831	14.67	26.0	Pickup and delivery	17,023	10.27	21.3
14,879	10.48	18.6	Profit	170,231	102.72	212.7
148,792	104.78	186.0	Total operating cost			

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	121,253 lbs.
Average payload --	74,846 lbs.
Estimated annual quantity --	9,356 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads

Gravel roads

299.3

Total Operating Cost 342.3

Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Bulk

Annual distance -- 160000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	55000 kg.	55000 kg.
	Average Payload	33950 kg.	33950 kg.
	Estimated Annual Quantity	16975 tonnes	16975 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	2841 hrs.	3314 hrs.

B.	Driver Costs		
	Load - unload time cost	\$ 5327	\$ 5327
	Distance wage	\$ 27552	\$ 0
	Hourly wage	\$ 0	\$ 35361
	Wage burden	\$ 8384	\$ 10376

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
41,263	14.53	25.8	Driver	51,064	15.41	31.9
42,540	14.98	26.6	Fuel	42,540	12.84	26.6
23,126	8.14	14.5	Repairs	27,751	8.37	17.3
1,194	0.42	0.7	Cleaning	1,194	0.36	0.7
3,149	1.11	2.0	Transport	3,149	0.95	2.0
7,224	2.54	4.5	Tires	12,281	3.71	7.7
118,496	41.72	74.1	Total tractor variable	137,979	41.64	86.2
			Tractor fixed costs			
16,600	5.84	10.4	Depreciation	16,600	5.01	10.4
1,230	0.43	0.8	Licences	1,230	0.37	0.8
17,830	6.27	11.2	Total tractor fixed	17,830	5.38	11.2
136,326	47.99	85.3	Tractor total	155,809	47.02	97.4
			Trailer variable costs			
16,123	5.68	10.1	Repairs	19,347	5.84	12.1
2,150	0.76	1.3	Cleaning	2,150	0.65	1.3
2,823	0.99	1.8	Transport	2,823	0.85	1.8
13,219	4.65	8.3	Tires	21,811	6.58	13.6
34,315	12.08	21.5	Total trailer variable	46,131	13.92	28.8
			Trailer fixed costs			
11,340	3.99	7.1	Depreciation	11,340	3.42	7.1
56	0.02		Licences	56	0.02	
11,396	4.01	7.1	Total trailer fixed	11,396	3.44	7.1
45,711	16.09	28.6	Trailer total	57,527	17.36	35.9
182,037	64.08	113.9	Total vehicle costs	213,336	64.38	133.3
7,481	2.63	4.7	Insurance costs	8,767	2.65	5.5
34,911	12.29	21.8	Admin. and interest	40,914	12.35	25.6
24,936	8.78	15.6	Pickup and delivery	29,224	8.82	18.3
249,365	87.78	156.0	Profit	292,241	88.20	182.7
			Total operating cost			

Imperial Equivalent Summary

A.	Annual distance travelled --	99,424 mi.
	Gross vehicle weight --	121,253 lbs.
	Average payload --	74,846 lbs.
	Estimated annual quantity --	18,712 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

251.1 Total Operating Cost 294.0

Configuration -- semi-trailer and pup 8 axles

N.W.T.

Commodity -- Bulk

Annual distance -- 240000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	55000 kg.	55000 kg.
Average Payload	33950 kg.	33950 kg.
Estimated Annual Quantity	25463 tonnes	25463 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	4261 hrs.	4971 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7991	\$ 7991
Distance wage	\$ 41328	\$ 0
Hourly wage	\$ 0	\$ 53042
Wage burden	\$ 12576	\$ 15563

C. Total Operating Costs

P a v e d R o a d s

G r a v e l R o a d s

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
			Tractor variable costs			
61,895	14.53	25.8	Driver	76,596	15.41	31.9
63,809	14.98	26.6	Fuel	63,809	12.84	26.6
34,688	8.14	14.5	Repairs	41,626	8.37	17.3
1,791	0.42	0.7	Cleaning	1,791	0.36	0.7
3,149	0.74	1.3	Transport	3,149	0.63	1.3
10,837	2.54	4.5	Tires	18,422	3.71	7.7
176,169	41.35	73.4	Total tractor variable	205,393	41.32	85.5
			Tractor fixed costs			
16,600	3.90	6.9	Depreciation	16,600	3.34	6.9
1,230	0.29	0.5	Licences	1,230	0.25	0.5
17,830	4.19	7.4	Total tractor fixed	17,830	3.59	7.4
193,999	45.54	80.8	Tractor total	223,223	44.91	92.9
			Trailer variable costs			
24,184	5.68	10.1	Repairs	29,021	5.84	12.1
3,225	0.76	1.3	Cleaning	3,225	0.65	1.3
2,823	0.66	1.2	Transport	2,823	0.57	1.2
19,829	4.65	8.3	Tires	32,717	6.58	13.6
50,061	11.75	20.9	Total trailer variable	67,786	13.64	28.2
			Trailer fixed costs			
11,340	2.66	4.7	Depreciation	11,340	2.28	4.7
56	0.01		Licences	56	0.01	
11,396	2.67	4.7	Total trailer fixed	11,396	2.29	4.7
61,457	14.42	25.6	Trailer total	79,182	15.93	32.9
255,456	59.96	106.4	Total vehicle costs	302,405	60.84	125.8
10,498	2.46	4.4	Insurance costs	12,428	2.50	5.2
48,992	11.50	20.4	Admin. and interest	57,996	11.67	24.2
34,994	8.21	14.6	Pickup and delivery			
349,940	82.13	145.8	Profit	41,425	8.33	17.3
			Total operating cost	414,254	83.34	172.5

Imperial Equivalent Summary

A. Annual distance travelled --	149,136 mi.
Gross vehicle weight --	121,253 lbs.
Average payload --	74,846 lbs.
Estimated annual quantity --	28,068 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

234.6 Total Operating Cost 277.6

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Bulk

Annual distance -- 80000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63300 kg.	63300 kg.
Average Payload	42660 kg.	42660 kg.
Estimated Annual Quantity	10665 tonnes	10665 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	1420 hrs.	1657 hrs.

B. Driver Costs		
Load - unload time cost	\$ 3890	\$ 3890
Distance wage	\$ 21224	\$ 0
Hourly wage	\$ 0	\$ 20547
Wage burden	\$ 5651	\$ 5498

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km. \$			
			Tractor variable costs		
30,765	21.66	38.5	Driver	29,935	18.07
21,631	15.23	27.0	Fuel	21,631	13.05
11,726	8.26	14.7	Repairs	14,071	8.49
776	0.55	1.0	Cleaning	776	0.47
4,126	2.90	5.2	Transport	4,126	2.49
4,304	3.03	5.4	Tires	7,317	4.42
73,328	51.63	91.8	Total tractor variable	77,856	46.99
			Tractor fixed costs		
16,600	11.69	20.8	Depreciation	16,600	10.02
1,740	1.23	2.2	Licences	1,740	1.05
18,340	12.92	23.0	Total tractor fixed	18,340	11.07
91,668	64.55	114.8	Tractor total	96,196	58.06
			Trailer variable costs		
7,410	5.22	9.3	Repairs	8,892	5.37
955	0.67	1.2	Cleaning	955	0.58
3,366	2.37	4.2	Transport	3,366	2.03
6,610	4.65	8.3	Tires	10,906	6.58
18,341	12.91	23.0	Total trailer variable	24,119	14.56
			Trailer fixed costs		
11,340	7.98	14.2	Depreciation	11,340	6.84
20	0.01		Licences	20	0.01
11,360	7.99	14.2	Total trailer fixed	11,360	6.85
29,701	20.90	37.2	Trailer total	35,479	21.41
121,369	85.45	152.0	Total vehicle costs	131,675	79.47
4,980	3.51	6.2	Insurance costs	5,411	3.27
23,276	16.39	29.1	Admin. and interest	25,253	15.24
16,626	11.71	20.8	Pickup and delivery	18,038	10.89
166,259	117.06	208.1	Profit	180,377	108.87
			Total operating cost		225.5

Imperial Equivalent Summary

A. Annual distance travelled --	49,712 mi.
Gross vehicle weight --	139,551 lbs.
Average payload --	94,048 lbs.
Estimated annual quantity --	11,756 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s

G r a v e l r o a d s

334.9 Total Operating Cost 362.9

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Bulk

Annual distance -- 160000 km.

A. Vehicle Utilization	Paved Road	Gravel Road
Gross Vehicle Weight	63300 kg.	63300 kg.
Average Payload	42660 kg.	42660 kg.
Estimated Annual Quantity	21330 tonnes	21330 tonnes
Trip Running Time	5.7 hrs.	6.6 hrs.
Annual Running Hours	2841 hrs.	3314 hrs.

B. Driver Costs		
Load - unload time cost	\$ 7779	\$ 7779
Distance wage	\$ 42448	\$ 0
Hourly wage	\$ 0	\$ 41094
Wage burden	\$ 11301	\$ 10997

C. Total Operating Costs

Paved Roads

Gravel Roads

Total Cost \$	Cost per Running Hour \$	Cost per km.		Total Cost \$	Cost per Running Hour \$	Cost per km.
61,528	21.66	38.5	Tractor variable costs			
43,261	15.23	27.0	Driver	59,870	18.07	37.4
23,451	8.26	14.7	Fuel	43,261	13.05	27.0
1,553	0.55	1.0	Repairs	28,142	8.49	17.6
4,126	1.45	2.6	Cleaning	1,553	0.47	1.0
8,608	3.03	5.4	Transport	4,126	1.24	2.6
142,527	50.18	89.2	Tires	14,633	4.42	9.1
			Total tractor variable	151,585	45.74	94.7
			Tractor fixed costs			
16,600	5.84	10.4	Depreciation	16,600	5.01	10.4
1,740	0.61	1.1	Licences	1,740	0.53	1.1
18,340	6.45	11.5	Total tractor fixed	18,340	5.54	11.5
160,867	56.63	100.7	Tractor total	169,925	51.28	106.2
			Trailer variable costs			
14,820	5.22	9.3	Repairs	17,784	5.37	11.1
1,911	0.67	1.2	Cleaning	1,911	0.58	1.2
3,366	1.18	2.1	Transport	3,366	1.02	2.1
13,219	4.65	8.3	Tires	21,811	6.58	13.6
33,316	11.72	20.9	Total trailer variable	44,872	13.55	28.0
			Trailer fixed costs			
11,340	3.99	7.1	Depreciation	11,340	3.42	7.1
20	0.01		Licences	20	0.01	
11,360	4.00	7.1	Total trailer fixed	11,360	3.43	7.1
44,676	15.72	28.0	Trailer total	56,232	16.98	35.1
205,543	72.35	128.7	Total vehicle costs	226,157	68.26	141.3
8,447	2.97	5.3	Insurance costs	9,294	2.80	5.8
39,419	13.88	24.6	Admin. and interest	43,372	13.09	27.1
28,156	9.91	17.6	Pickup and delivery			
281,565	99.11	176.2	Profit	30,980	9.35	19.4
			Total operating cost	309,803	93.50	193.6

***** Imperial Equivalent Summary *****

A. Annual distance travelled -- 99,424 mi.
 Gross vehicle weight -- 139,551 lbs.
 Average payload -- 94,048 lbs.
 Estimated annual quantity -- 23,512 tons

B. Total Operating Cost per mile (cents/mile)

Paved roads	283.6	Total Operating Cost	311.6
Gravel roads			

Configuration -- semi-trailer and pup 8 axles

Yukon

Commodity -- Bulk

Annual distance -- 240000 km.

A.	Vehicle Utilization	Paved Road	Gravel Road
	Gross Vehicle Weight	63300 kg.	63300 kg.
	Average Payload	42660 kg.	42660 kg.
	Estimated Annual Quantity	31995 tonnes	31995 tonnes
	Trip Running Time	5.7 hrs.	6.6 hrs.
	Annual Running Hours	4261 hrs.	4971 hrs.
B.	Driver Costs		
	Load - unload time cost	\$ 11669	\$ 11669
	Distance wage	\$ 63672	\$ 0
	Hourly wage	\$ 0	\$ 61642
	Wage burden	\$ 16952	\$ 16495

C. Total Operating Costs

P a v e d R o a d s			G r a v e l R o a d s		
Total Cost \$	Cost per Running Hour \$	Cost per km. \$	Total Cost \$	Cost per Running Hour \$	Cost per km. \$
Tractor variable costs					
92,293	21.66	38.5	Driver	89,806	18.07
64,892	15.23	27.0	Fuel	64,892	13.05
35,177	8.26	14.7	Repairs	42,212	8.49
2,329	0.55	1.0	Cleaning	2,329	0.47
4,126	0.97	1.7	Transport	4,126	0.83
12,912	3.03	5.4	Tires	21,950	4.42
211,729	49.70	88.3	Total tractor variable	225,315	45.33
Tractor fixed costs					
16,600	3.90	6.9	Depreciation	16,600	3.34
1,740	0.41	0.7	Licences	1,740	0.35
18,340	4.31	7.6	Total tractor fixed	18,340	3.69
230,069	54.01	95.9	Tractor total	243,655	49.02
Trailer variable costs					
22,230	5.22	9.3	Repairs	26,676	5.37
2,866	0.67	1.2	Cleaning	2,866	0.58
3,366	0.79	1.4	Transport	3,366	0.68
19,829	4.65	8.3	Tires	32,717	6.58
48,291	11.33	20.2	Total trailer variable	65,625	13.21
Trailer fixed costs					
11,340	2.66	4.7	Depreciation	11,340	2.28
20			Licences	20	
11,360	2.66	4.7	Total trailer fixed	11,360	2.28
59,651	13.99	24.9	Trailer total	76,985	15.49
289,720	68.00	120.8	Total vehicle costs	320,640	64.51
11,906	2.79	5.0	Insurance costs	13,177	2.65
55,562	13.04	23.2	Admin. and interest	61,493	12.37
39,687	9.31	16.5	Pickup and delivery	43,923	8.84
396,875	93.14	165.5	Profit		
			Total operating cost	439,233	88.37

***** Imperial Equivalent Summary *****

A.	Annual distance travelled --	149,136 mi.
	Gross vehicle weight --	139,551 lbs.
	Average payload --	94,048 lbs.
	Estimated annual quantity --	35,268 tons

B. Total Operating Cost per mile (cents/mile)

P a v e d r o a d s G r a v e l r o a d s

266.3 Total Operating Cost 294.2

APPENDIX A: SELECTED INPUT COST COMPONENTS



REPRESENTATIVE DRIVER WAGES ACROSS CANADA (mid 1988)

-----BULK COMMODITY-----				-----GENERAL FREIGHT-----			
	2-Axle Vehicles per hr ¢	5-Axle Vehicles per hr ¢	7/8-Axle Vehicles per hr ¢	7/8-Axle Vehicles per hr ¢	2-Axle Vehicles per hr ¢	5-Axle Vehicles per hr ¢	7/8-Axle Vehicles per hr ¢
British Columbia	14.02	14.02	23.07	14.19	24.93	16.61	17.45
Alberta	11.92	11.92	18.37	11.92	20.22	15.00	15.00
Saskatchewan	10.00	10.00	15.05	10.25	16.40	13.77	14.11
Manitoba	10.00	10.00	16.10	10.20	17.04	13.77	14.04
Ontario	14.39	14.39	19.93	14.39	20.68	14.10	14.10
Quebec	12.76	12.76	19.03	12.81	19.53	12.48	12.48
New Brunswick	10.74	10.74	14.43	10.74	14.86	10.95	10.95
Nova Scotia	10.74	10.74	14.43	10.74	14.86	10.95	10.95
P.E.I.	8.03	8.03	12.12	8.03	12.49	9.00	9.00
Newfoundland	11.37	11.37	14.75	11.37	14.75	9.60	9.60
Yukon	12.23	12.23	24.35	12.40	26.53	16.99	17.11
N.W.T.	10.50	10.50	16.03	10.67	17.22	14.95	14.96

Appendix Table A.2

ESTIMATED TRUCKER FUEL COSTS BY PROVINCE (mid 1988)

	-----Diesel-----		-----Gasoline-----	
	Est. Purchase	Tank Wagon	Est. Purchase	Tank Wagon
	cents/litre	cents/litre	cents/litre	cents/litre
British Columbia	44.04	43.75	46.95	46.40
Alberta	36.77	40.67	42.20	44.90
Saskatchewan	41.75	43.05	44.30	45.30
Manitoba	44.50	42.50	45.60	43.20
Ontario	47.24	46.04	50.83	48.73
Quebec	55.30	53.15	60.18	55.70
New Brunswick	43.14	39.24	49.13	47.23
Nova Scotia	43.64	38.04	49.13	40.13
P.E.I.	43.14	37.24	46.23	41.33
Newfoundland	48.64	40.34	51.83	47.13
Yukon	46.90	47.30	49.90	51.90
N.W.T.	48.00	48.00	51.30	49.90

NOTE: Costs shown reflect Oil Company Tank Wagon Prices, provincial fuel taxes, and expected discounts for fleet fuel purchases in major regional centers. Gasoline fuel purchase costs also exclude the 1.5 cents/litre federal excise tax which is refundable to the operator on application.

Appendix Table A.3

CAPITAL COSTS OF EQUIPMENT TYPES (1988)

Gasoline Powered Diesel Powered

	Two-Axle Dry Freight	Two-Axle Bulk Unit	Two-Axle Dry Freight	Two-Axle Bulk Unit	Tractor for Five-Axle Unit	General Freight Trailer	Bulk Trailer Aluminum	Tractor for 7/8-Axle Trains	Two 8.2 m Freight Trlrs	Two Bulk Trlrs Aluminum
British Columbia	\$46,831	\$80,666	\$52,173	\$86,008	\$108,595	\$33,947	\$52,311	\$110,892	\$38,955	\$100,170
Alberta	\$44,180	\$76,100	\$49,220	\$81,140	\$102,350	\$32,025	\$49,350	\$104,700	\$36,750	\$94,500
Saskatchewan	\$47,273	\$81,427	\$52,665	\$86,820	\$109,203	\$34,267	\$52,805	\$112,024	\$39,323	\$101,115
Manitoba	\$47,273	\$81,427	\$52,665	\$86,820	\$109,003	\$34,267	\$52,805	\$112,324	\$39,323	\$101,115
Ontario	\$47,414	\$81,888	\$52,858	\$87,331	\$109,860	\$34,587	\$53,298	\$113,856	\$39,690	\$102,060
Quebec	\$47,856	\$82,649	\$53,350	\$88,143	\$110,418	\$34,907	\$53,792	\$114,888	\$40,050	\$103,005
New Brunswick	\$49,040	\$84,471	\$54,634	\$90,065	\$113,033	\$35,540	\$54,779	\$116,952	\$40,793	\$104,895
Nova Scotia	\$48,598	\$83,710	\$54,142	\$89,254	\$112,025	\$35,228	\$54,205	\$115,920	\$40,425	\$103,950
P.E.I.	\$48,598	\$83,710	\$54,142	\$89,254	\$112,025	\$35,228	\$54,205	\$116,520	\$40,425	\$103,950
Newfoundland	\$49,402	\$85,232	\$55,126	\$90,877	\$114,240	\$35,868	\$55,272	\$118,584	\$41,160	\$105,840
Yukon	\$44,180	\$76,100	\$49,220	\$81,140	\$102,350	\$32,025	\$49,350	\$104,800	\$36,750	\$94,500
N.W.T.	\$44,180	\$76,100	\$49,220	\$81,140	\$102,550	\$32,025	\$49,350	\$104,800	\$36,750	\$94,500

Appendix Table A.4

VEHICLE LICENSING FEES AND WEIGHTS (1988)

	GVM/GCM (kg)	No. of Axles	(#) Annual Fee for Power Unit	(#) Annual Fee for Trailer
British Columbia	14,600	2	426	-
	39,500	5	1588	25
	56,500	7	2355	50
Alberta	63,500	8	2677	50
	16,400	2	458	-
	39,000	5	1349	20
Saskatchewan	53,500	7	2094	40
	14,600	2	674	-
	37,500	5	2163	32
Manitoba	53,500	7	3174	64
	15,430	2	502	-
	39,500	5	2202	10
Ontario	56,500	7	3528	20
	56,500	8	3528	20
	19,000	2	764	-
Quebec	47,200	5	2006	-
	63,500	7	2722	-
	18,500	2	822	-
New Brunswick	48,500	5	2878	57
	57,500	8	2756	114
	14,500	2	402	-
Nova Scotia	48,500	5	1342	10
	56,500	7	1878	20
	14,500	2	481	-
P.E.I.	48,500	5	1312	25
	50,000	7	1600	50
	14,500	2	395	-
Newfoundland	48,500	5	1173	25
	56,500	7	2048	50
	62,500	8	2178	50
Yukon Territory	14,969	2	440	-
	40,500	5	1858	25
	56,500	7	1986	50
N.W.T.	62,500	8	2178	50
	15,000	2	400	-
	43,200	5	1240	10
N.W.T.	63,300	8	1740	20
	15,000	2	320	-
	37,000	5	816	20
N.W.T.	53,000	7	1184	50
	55,000	8	1230	56